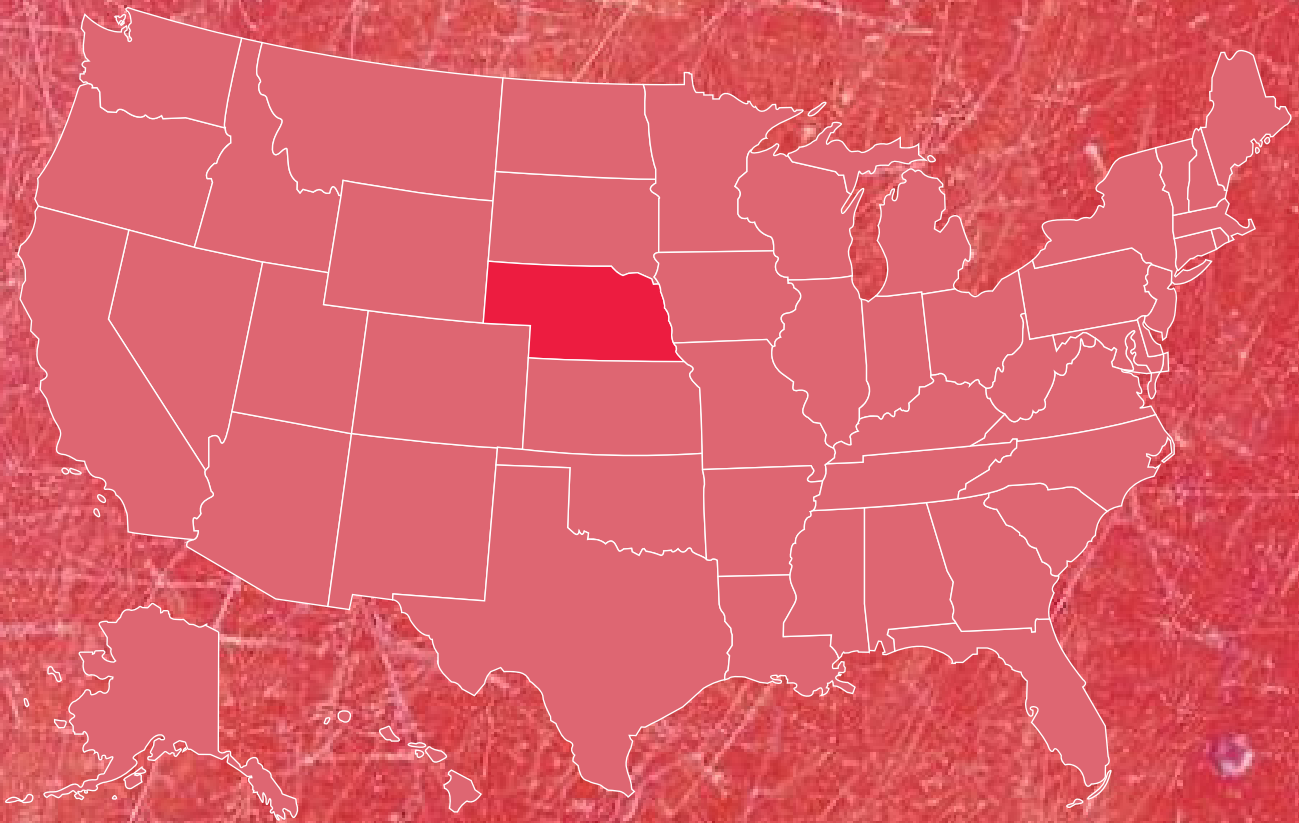


Nebraska.Code()



WORKSHOPS - 07/19/2023

BREAKOUTS - 07/20-07/21/2023

THE LINCOLN MARRIOTT CORNHUSKER HOTEL



Nebraska.Code()

WORKSHOPS - 07/19/2023
BREAKOUTS - 07/20-07/21/2023

CODE OF CONDUCT

AMEGALA RECOGNIZES THE IMPORTANCE OF A HARASSMENT-FREE CONFERENCE EXPERIENCE FOR EVERYONE, REGARDLESS OF GENDER, GENDER IDENTITY & EXPRESSION, SEXUAL ORIENTATION, DISABILITY, PHYSICAL APPEARANCE, BODY SIZE, RACE, AGE OR RELIGION. WE EXPECT ANYONE AT AN AMEGALA EVENT, INCLUDING BUT NOT LIMITED TO ORGANIZERS, VOLUNTEERS, ATTENDEES, SPEAKERS, VENUE STAFF, SPONSORS, EXHIBITORS, CATERERS, & GUESTS, TO TREAT EACH OTHER WITH RESPECT AND TO NOT ENGAGE IN BEHAVIOR DEEMED HARASSING IN NATURE.

HARASSMENT INCLUDES VERBAL COMMENTS THAT REINFORCE SOCIAL STRUCTURES OF DOMINATION RELATED TO GENDER, GENDER IDENTITY & EXPRESSION, SEXUAL ORIENTATION, DISABILITY, PHYSICAL APPEARANCE, BODY SIZE, RACE, AGE, RELIGION, SEXUAL IMAGES IN PUBLIC SPACES, DELIBERATE INTIMIDATION, STALKING, FOLLOWING, HARASSING PHOTOGRAPHY OR RECORDING, SUSTAINED DISRUPTION OF TALKS OR OTHER EVENTS, INAPPROPRIATE PHYSICAL CONTACT, & UNWELCOME SEXUAL ATTENTION.

EXHIBITORS IN SPONSOR OR VENDOR BOOTHS, OR SIMILAR ACTIVITIES ARE ALSO SUBJECT TO THE ANTI-HARASSMENT POLICY. IN PARTICULAR, EXHIBITORS SHOULD NOT USE SEXUALIZED IMAGES, ACTIVITIES, OR OTHER MATERIAL. BOOTH STAFF (INCLUDING VOLUNTEERS) SHOULD NOT USE SEXUALIZED CLOTHING/UNIFORMS/COSTUMES, OR OTHERWISE CREATE A SEXUALIZED ENVIRONMENT.

WE EXPECT PARTICIPANTS TO FOLLOW THESE RULES AT ALL CONFERENCE VENUES AND CONFERENCE-RELATED SOCIAL EVENTS.

SCHEDULE

WEDNESDAY 07/19/2023

7:30AM-8:30AM REGISTRATION & BREAKFAST
8:30AM-10:00AM WORKSHOPS
10:00AM-10:30AM BREAK
10:30AM-12:00PM WORKSHOPS
12:00PM-1:00PM LUNCH
1:00PM-2:30PM WORKSHOPS
2:30PM-3:00PM BREAK
3:00PM-4:30PM WORKSHOPS

THURSDAY 07/20/2023

7:30AM-8:30AM REGISTRATION & BREAKFAST
8:30AM-8:45AM OPENING REMARKS
8:45AM-9:40AM KEYNOTE
9:40AM-9:45AM BREAK
9:45AM-10:40AM KEYNOTE
10:40AM-11:00AM BREAK
11:00AM-12:00PM BREAKOUT SESSION ONE
12:00PM-1:00PM LUNCH
1:00PM-2:00PM BREAKOUT SESSION TWO
2:00PM-2:30PM BREAK
2:30PM-3:30PM BREAKOUT SESSION THREE
3:30PM-4:00PM BREAK
4:00PM-5:00PM BREAKOUT SESSION FOUR
6:00PM-8:00PM ATTENDEE PARTY!

FRIDAY 07/21/2023

7:30AM-8:40AM REGISTRATION & BREAKFAST
8:40AM-8:45AM OPENING REMARKS
8:45AM-9:40AM KEYNOTE
9:40AM-9:45AM BREAK
9:45AM-10:40AM KEYNOTE
10:40AM-11:00AM BREAK
11:00AM-12:00PM BREAKOUT SESSION FIVE
12:00PM-1:00PM LUNCH
1:00PM-2:00PM BREAKOUT SESSION SIX
2:00PM-2:30PM BREAK
2:30PM-3:30PM BREAKOUT SESSION SEVEN
3:30PM-4:00PM BREAK
4:00PM-5:00PM BREAKOUT SESSION EIGHT

WELCOME!

JULY 19-21 2023



WELCOME!

This will be our thirteenth year organizing Nebraska.Code().

Thank you, as always, to all of you who have supported this conference all these years and “Welcome!” to all.

Nebraska.Code() is a community-organized event, and it is our goal to help grow and support the local software development community. We are honored to have the sponsorship of many home-grown companies who have seen the value our software conference has on our community. Please introduce yourself to these organizations and learn a little more about each one. We would be unable to have this conference without their support and involvement, so please show them your appreciation.

We have brought in impassioned industry experts from across the state, the region, and the nation to share their knowledge and experiences. Engage with the speakers and share your feedback by utilizing the speaker evaluation system. If you have specific questions or comments regarding a session, be sure to connect with the presenter to discuss or write your comments in the speaker evaluation form. If you would like the presenter to follow-up with you, please provide your contact information.

Please find us on social media to keep up to date regarding the next event, to see the full speaker bios and to view the many photos shared here. We are active across social media (Twitter, Facebook, Instagram and LinkedIn). Use the hashtag #NebrCode to let the world know what exciting new things you have learned!

While the workshops and breakout sessions are the heart of Nebraska.Code(), we urge you to take advantage of the opportunities for networking and career enhancement. Meet with the sponsors to learn more about the software industry in Nebraska. Have your badge scanned to win prizes. Network and socialize with your fellow attendees.

Lastly, be sure join us for the Attendee Party Thursday 5:00PM-8:00PM at the Starlite Lounge & Banquet Room at 247 N 8th St, Lincoln in the Haymarket for hard and soft drinks and delicious food.. Let the fun continue across the hall at the rented-out VS Arcade Bar at 247 N. 8th Street for free-play on most arcade games.

If you have any questions, concerns, or comments, please let us know. Anyone at the registration desk will be able to assist.

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THANK YOU!

NEBRASKA.CODE() & AMEGALA CONFERENCES IS SO THANKFUL FOR ALL OF OUR SPONSORS, ATTENDEES & SPEAKERS.

WE ARE GRATEFUL TO ALL OF THE COMPANIES & GROUPS THAT HELPED SPONSOR THIS YEARS' NEBRASKA.CODE(), AND FOR EVERYONE'S HARD WORK AND COMMITMENT TO MAKING THIS 2023 CONFERENCE A SUCCESSFUL COMMUNITY EVENT. WE COULD NOT HAVE DONE IT WITHOUT YOUR SUPPORT!

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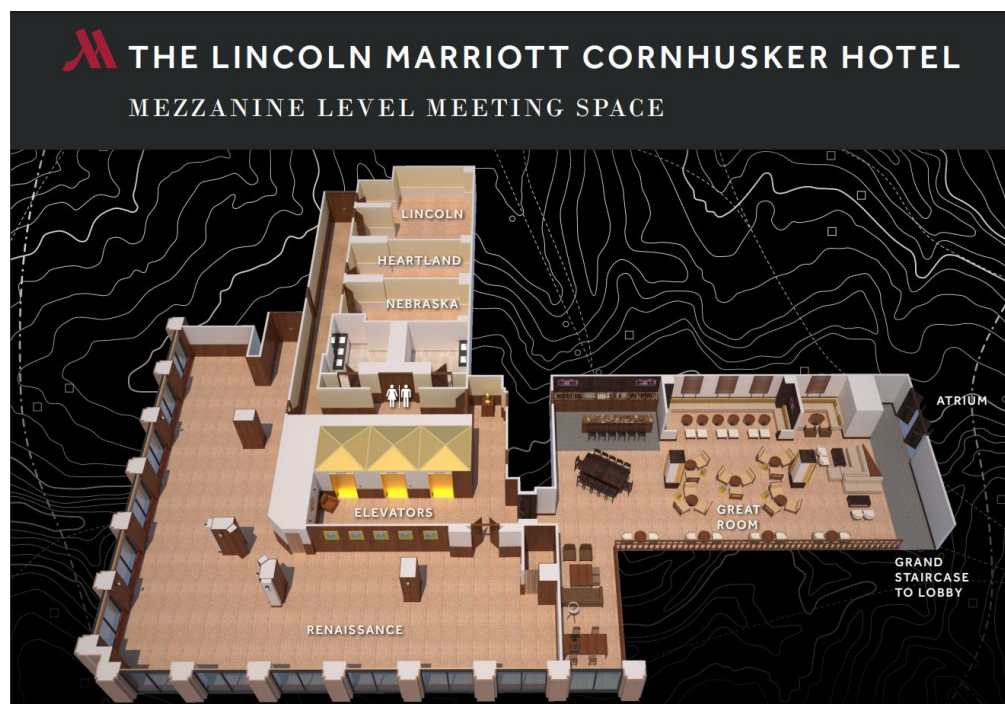
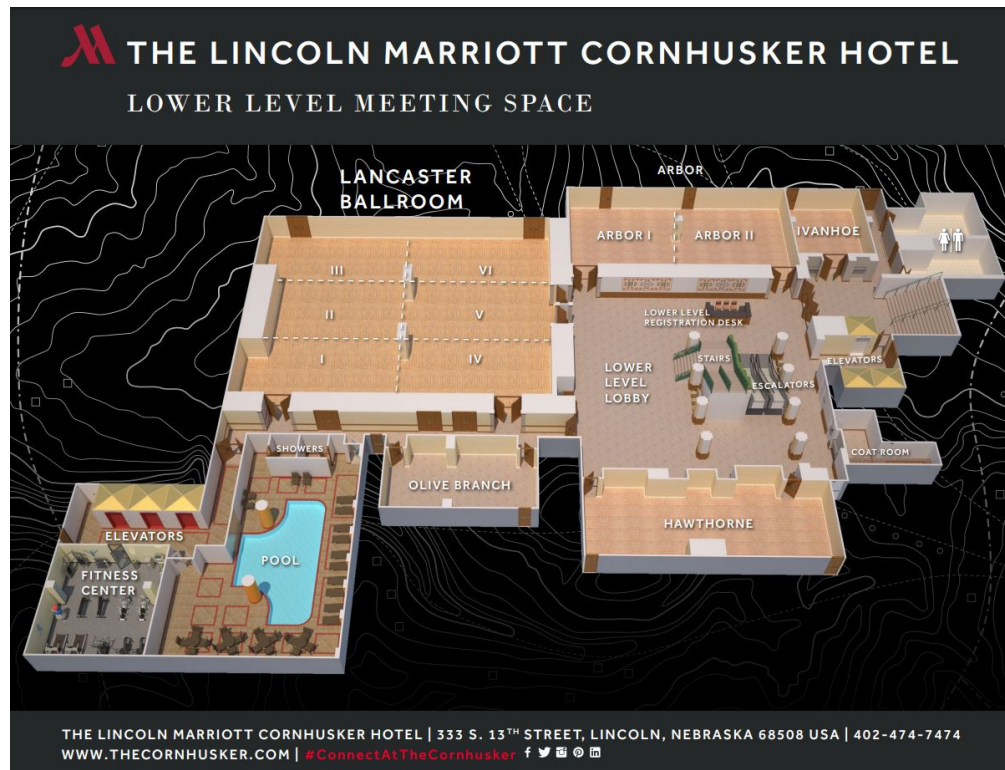
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LINCOLN.CODE() - [HTTPS://WWW.MEETUP.COM/LINCOLN-CODE/](https://www.meetup.com/lincoln-code/)

MAP



MENU



WEDNESDAY

BREAKFAST 7:30 AM

- DOUGHNUTS, DANISH, MUFFINS YOGURT & ASSORTED WHOLE FRUIT

LUNCH 12:00 PM

- BUFFET WITH SALMON AND CHICKEN FLORETINE, GARDEN SALAD, CALIFORNIA MEDLEY, MASHED POTATOES & ROLLS

SODA BREAK 2:30 PM

- ASSORTED COOKIES & RICE KRISPIE BARS, SODA

THURSDAY

BREAKFAST 7:30 AM

- DOUGHNUTS, DANISH, MUFFINS, YOGURT & ASSORTED WHOLE FRUIT

LUNCH 12:00 PM

BUFFET WITH SHREDDED CHICKEN AND BEEF BRISKET, BUNS, SALAD, COLESLAW, BAKED BEANS, MAC AND CHEESE & CORN BREAD

SODA BREAK 2:00 PM

- BROWNIES, BLONDIES & RICE KRISPIE BARS, SODA

FRIDAY

BREAKFAST 7:30 AM

- DOUGHNUTS, DANISH, MUFFINS, YOGURT & ASSORTED WHOLE FRUIT

LUNCH 12:00 PM

- BUFFET WITH CILANTRO LIME CHICKEN STREET TACOS, BLACK BEAN & CORN STREET TACOS, SPANISH RICE & ADD-ONS

SODA BREAK 2:00 PM

- ASSORTED COOKIES & RICE KRISPIE BARS, SODA

EVALUATIONS



EVALUATIONS

YOUR FEEDBACK ON THE SESSIONS YOU ATTEND IS VERY BENEFICIAL TO THE ORGANIZERS AND TO ALL THE SPEAKERS. WE HAVE A SIMPLE EVALUATION SYSTEM TO HELP YOU EASILY PARTICIPATE.

TO SWEETEN THE POT, WE WILL ALSO BE DRAWING FOR GREAT PRIZES FROM THOSE OF YOU WHO SUBMIT YOUR EVALUATIONS.

HOW IT WORKS:

LOG IN TO YOUR ACCOUNT ON NEBRASKACODE.AMEGALA.COM

NAVIGATE TO THE SCHEDULE PAGE & SELECT A SESSION

GIVE THE SESSION A GREEN, YELLOW OR RED RATING

LEAVE SOME CONSTRUCTIVE COMMENTS TO ELABORATE ON YOUR RATING

YOU WILL HAVE A CONFERENCE EVALUATION EMAILED TO YOU SHORTLY AFTER NEBRASKA.CODE() HAS ENDED. PLEASE RESPOND TO THE SURVEY - WE READ EVERY PIECE OF FEEDBACK YOU PROVIDE AND CONSIDER IT THOROUGHLY AS WE PLAN THE NEXT NEBRASKA.CODE().

EVALUATION RATING LEGEND

THE COLOR SYSTEM HELPS THE SPEAKER & ORGANIZERS GET A QUICK GENERAL FEELING OF HOW THE SESSION WENT, BUT THE REAL VALUE COMES FROM YOUR FEEDBACK IN THE COMMENTS SECTION.

PLEASE PROVIDE THE GREEN/YELLOW/RED RATING FOR EACH SESSION YOU ATTEND & CONSIDER LEAVING CONSTRUCTIVE COMMENTS AS WELL.

BE SOCIAL. WIN PRIZES!

LET US, & YOUR FRIENDS, & THE WORLD KNOW ABOUT YOUR EXPERIENCES AT NEBRASKA.CODE(). POST PICTURES OR TEXT ABOUT YOUR FAVORITE SESSION, SPEAKERS, FOOD, HALLWAY CONVERSATION OR THAT PERFECT SELFIE WITH YOUR CO-WORKERS TO FACEBOOK, TWITTER OR INSTAGRAM. MAKE SURE TO MENTION OR TAG US FOR A CHANCE TO WIN GREAT PRIZES!



**THIS SESSION
WAS A VALUABLE
USE OF MY TIME.**



**I GOT SOME VALUE
OUT OF ATTENDING
THIS SESSION.**



**THIS SESSION HAD
LITTLE TO NO VALUE
TO ME.**

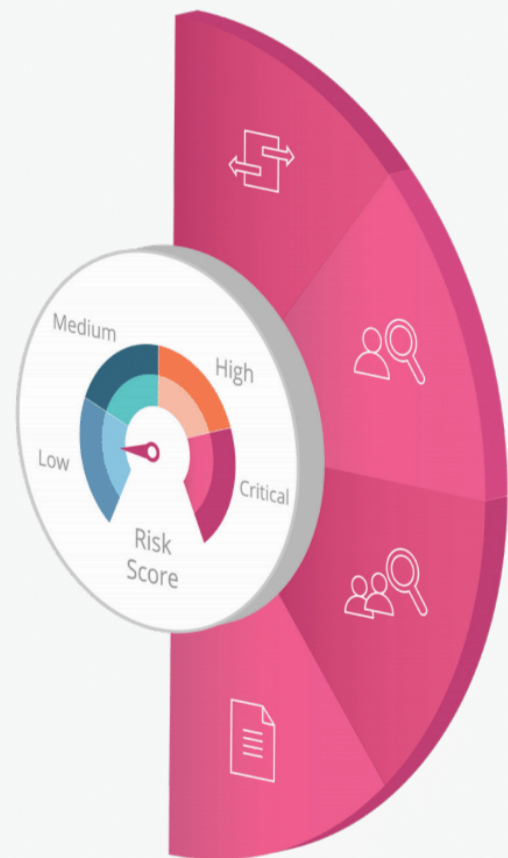
Eliminate False Positives With Contextual AI

Your web applications are growing at the speed of DevOps, which means your AppSec needs to scale even faster. Legacy Web Application Firewalls (WAFs) are rule-based, and use binary rules to match requests to attack signature databases. This creates enormous administrative overhead, and blocks legitimate application users.

CloudGuard AppSec is fully automated and leverages contextual AI analysis to provide precise threat prevention for modern web applications-lessening the need for on-going administration and increasing your application security at scale.



www.checkpoint.com/cloudguard/appsec/



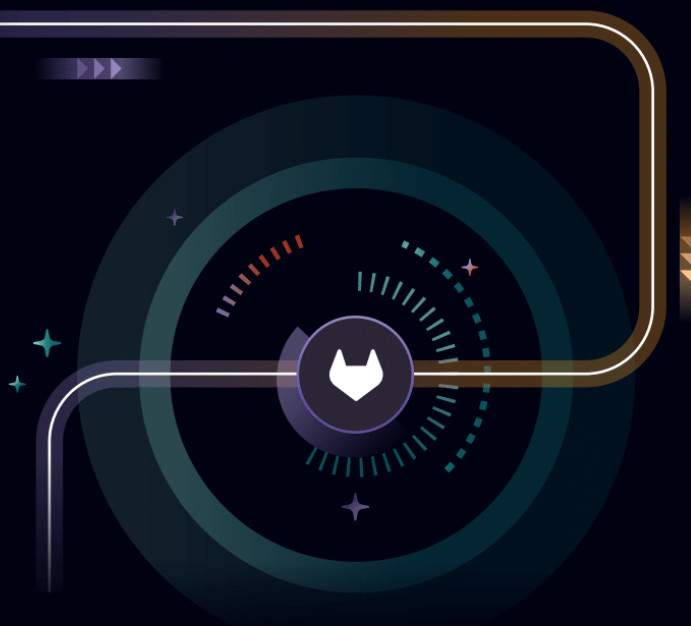
For more information, please contact:

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E: crystalk@checkpoint.com

Scott Bunde
Security Engineer
Check Point Software Technologies Inc.
E: scottb@checkpoint.com



AI/ML in DevSecOps



AI-powered workflows

Boost efficiency and reduce cycle times with the help of AI in every phase of the software development lifecycle.



Privacy-First, Enterprise-Grade

We lead with a privacy-first approach to help enterprises and regulated organizations adopt AI-powered workflows.



Single Application

A single application with built-in security to deliver more software faster, enabling executive visibility across value streams and preventing context switching.



Empower every user at every step

From planning and code creation to testing, security, and monitoring, our AI-assisted workflows support developer, security, and ops teams.



Stop by our booth at Nebraska Code

Engage with GitLab team members, pick up some swag, and enter for a chance to win a raffle prize:

Meta Quest 2 VR Headset!



Try GitLab Ultimate for free

Register now for GitLab's DevSecOps World Tour



WORKSHOPS

JULY 19TH, 2023 | WEDNESDAY



ARCHITECTING AND BUILDING SERVERLESS SOLUTIONS IN AZURE

BRIAN GORMAN

This workshop is a very hands-on and guided activity to learn about, architect, and implement a real-world, serverless solution in the Microsoft Azure ecosystem.

The tools utilized for the solution will include Azure Functions, Cosmos DB, Event Grid, Logic Apps, Application Insights, Azure Computer Vision, and Azure storage.

After completing the workshop, attendees will be able to take the skills they've learned and apply them to solutions for both enterprise and personal projects, and will have a much better understanding of how information can flow between Azure serverless platform services to implement a robust serverless solution.

BUILD A PRAGMATIC DOMAIN-DRIVEN DESIGN AND EVENT SOURCING APPLICATION

ERIK SHAFER

During this workshop we will collaborate, design, and implement a solution that will result in a working, business-focused, event-driven application in modern C# (dotnet). If you want to be involved from building a solution from scratch this is your opportunity.

We will begin by Event Storming, which is a workshop-based method to quickly find out what is happening, or needs to happen, in the domain of our software application. This means of business-process modeling and requirements engineering will enable us to begin designing our application.

Our application will instill Domain-Driven Design concepts so we can bake business logic into our code to be expressive, understandable, and maintainable. We will also utilize CQRS and Event Sourcing to capture state changes and intent, allowing us to make an application that is robust, performance-minded, and observable.

We will discuss how these strategies can reduce business complexity, make our applications far easier to maintain and evolve, and going over the open source software that can make it happen.

If you want to see "real world" development that is focused on the domain and how that translates into powerful, modern, asynchronous software then this is a workshop you do not want to miss.

Note: A code repository will be publicly available to provide a helping hand in interest of time and comprehension so no one is left behind. This course assumes you some knowledge in C#, SQL, and Docker. Working experience in a language comperable to C# like Java could certainly follow along.

BUILD A MAUI APPLICATION IN A DAY

TIMOTHY INGLEDUE

Welcome to this full-day workshop on creating a MAUI application! We are going to jump into the world of MAUI, Microsoft's framework for building cross-platform applications. Whether you're a seasoned developer or just starting out, this workshop will provide you with everything you need to know to build a complete MAUI application from start to finish.

We will cover topics such as MAUI architecture, user interface design, data binding and navigation. By the end of this workshop you will have a solid understanding of MAUI and the skills you need to create your own cross-platform applications.

LEARN TO MERN - A FULL DAY, FULL STACK WORKSHOP

JOEL LORD

Everyone talks about being a full-stack JavaScript developer, but what does it even mean? Can you really use JavaScript all the way through your development stack, and how to get started? All the different technologies that are needed to become a full stack developer might seem daunting at first, this workshop is aiming at making this simpler and more accessible. In this workshop, the attendees will learn how to build a full stack application using the MERN (MongoDB, Express, React, Node.js) stack.

BEYOND THE CACHE WITH REDIS + NODE.JS

GUY ROYSE

If you're like a lot of developers, you've probably used Redis. You've probably used it as a cache—which it does amazingly—and you've probably cached strings. But Redis is much, much more than just a cache. It can be a message broker using queues, streams, and pub-sub. It can be a multi-model, in-memory, NoSQL database storing all sorts of data structures like hashes, lists, sets, and binary data. It can even be extended using modules to add new commands, new data structures, and new capabilities.

In this workshop, I'll show you how to take full advantage of all that Redis can do from your Node.js applications—starting from the very beginning with a primer on Redis. We'll cover the basics—talking to Redis from the command line and exploring its capabilities. Then, we'll take advantage of those capabilities from Node.js, building some simple yet surprising powerful applications using the low-level Node.js client—Node Redis. After that, we'll look at ways to extend Redis with modules, with an emphasis on using RedisSearch to find the data and RedisJSON to store documents.

WORKSHOPS

JULY 19TH, 2023 | WEDNESDAY



BEYOND THE CACHE WITH REDIS + NODE.JS - CONTINUED

GUY ROYSE

Redis does a lot more than you probably thought. The whole point of this workshop is to show you that “more” and give you the knowledge to take greater advantage of the Redis you are already using. So, let’s start learning and start using!

MAKE ACCESSIBILITY EASIER TO GET RIGHT AND HARDER TO GET WRONG (WORKSHOP)

**MICHAEL FAIRCHILD
AUSTIN GIL**

Want to learn about accessibility through hands-on experience? Then check out this workshop where we'll go over these highlights:

- Gain practical knowledge around disabilities and accessibility without getting overwhelmed.
- Discover tools and methods to improve how you audit your own projects for accessibility.
- Practice hand-on empathy exercises.
- Learn how to navigate applications with a keyboard and screen-reader.
- Build reusable components that enforce accessible practices.
- Recognize common pitfalls in component design.
- Incorporate tooling to catch errors in your editor, UI, Git workflow, repository, and CI/CD pipeline.

THE BASICS OF DEVOPS: HOW TO DEPLOY AN APPLICATION USING CI/CD

ZACH PERKINS

It seems so simple, right? Many developers know how to deploy an application but some don't because that might be outsourced to a deployment engineer. Also, many systems engineers may know how to maintain infrastructure, but they don't know how an application is actually deployed. In this workshop, we'll go over the basics of DevOps and provide those who may not have a current window into current automated build and deployment processes an example application to deploy to Azure using Azure DevOps.

VOICE OF CUSTOMER RESEARCH--HOW TO MEET YOUR CUSTOMER NEEDS!

ROB VERSAW

Have you ever felt left out of scoping a project? Maybe management issued directives without talking to customers and you didn't have the data to push back? If those have happened to you...this session is for you! Learn a proven structured analytical process to manage your customer research process, master interviews by identifying key jobs to be done and constantly refine your learnings. It will empower you to quickly and effectively communicate customer needs to your stakeholders.

**JOIN US
FOR THE
ATTENDEE
PARTY!**

**6:00 - 8:00 PM
THURSDAY 07/20**

**VS
ARCADE
BAR**



We get it — development isn't about perfection, it's about *Production*



Art Doler - Community & Culture Steward

How To Not Strangle Your Coworkers:
Resolving Conflict with Collaboration

Thursday, 11:00 AM - 12:00 PM

Fighting The Saboteur in Your
Relationships: Dealing with Cognitive
Biases

Thursday, 3:45 PM - 4:45 PM



Jerry Koske - Chief Technology Officer

Becoming an Agile Survivalist in a
Zombie Scrum Reality

Thursday, 2:30 PM - 3:30 PM



Brandon Suponchick - Chief Engineer

The Agile Architect: Building Product
From The Trenches, Not The Tower

Friday, 3:45 PM - 4:45 PM

Development can get chaotic, but a partner who knows how to roll with the punches makes a world of difference.

We're a full-service consulting firm focused on open collaboration to solve problems at the roots – regardless of how crazy it can get.

Come visit our booth to play our new game: Production, and check out our speakers every day during Nebraska.Code()!

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AVITURE



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DOANE
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+
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Tenzing is a business alignment platform that bridges the divide between business strategy and software development.

Make better decisions and deepen trust within your organization.



Learn more at

<https://tenzing.team>

KEYNOTES

JULY 20TH, 2023 | THURSDAY



THE POWER OF OPEN-SOURCE: HOW TO CONTRIBUTE TO AND MANAGE COMMUNITIES

CAITLIN CABRERA

Open-source projects encourage innovation through collaboration. As we know, when multiple developers from different backgrounds work together, we are more likely to see robust and reliable results. Open-source projects allow us to build on ideas and projects we wouldn't otherwise have access to. They also allow us to collaborate with others who we wouldn't normally cross paths with. These aspects of open-source have the potential to create a strong, organized community. These aspects also have the potential to create a disorganized and weak community as well.

After being in my current position for over a year, I decided to make a contribution to osquery, which is an open-source framework upon which Kolide's launcher agent runs on. Created by engineers at facebook, osquery is an open-source framework that allows you to query endpoint devices. This framework provides insight into devices of all operating systems by allowing a user to write SQL queries to find information about a given system.

Attendees will leave with a complete understanding of how open-source works and how to maintain and contribute to open-source projects. This talk is of value to open-source maintainers and contributors or anyone interested in contributing to an open-source project.

This talk will use a real-life example of a contribution I made to osquery.

BUILD YOUR POWER PLAYBOOK: 17 STEPS TO REGAIN YOUR POWER IN LIFE AND WORK

DONA SARKAR

At the beginning of the year, I was Real Mad at how powerless I felt around everything: relationships, my day job, my schedule, my side gigs, the economy and also the UFOs (with)

So I decided to do something about it.

15 things actually

And in the last 45-ish days, things have change DRAMATICALLY for the better.

Suddenly everything is looking extremely good. A whole bunch of opportunities have shown up. I dictate my day job now. I set expectations with my relationships. I filled my calendar with things I am excited about. I cut out ALL kinds of drama llamas.

I'm done sitting around waiting for things to happen to me. I'm going to happen to THINGS. And I want YOU to happen to things too.

In this unfiltered, no nonsense talk, you will hear 15 very tangible things that you can do to regain your power and build your OWN Power Playbook.



Lincoln.Code() ON

Meetup

This is a group for software development professionals who are interested in upgrading their skills and advancing their technical knowledge. This is a great place to network and see what techniques and technologies other software developers use to increase quality and output.

<https://www.meetup.com/lincoln-code/>

Learn here. Innovate here. Grow here.



work
for
higher.

This is a place where you are encouraged to learn, explore new ideas and be part of our culture-focused environment.

You don't need a background in agriculture to make a difference for the farmers, ranchers and agribusinesses that we serve. Our business technology teams are made up of problem-solvers seeking the latest ways to make credit and insurance services simple and secure for our customers.

Stop by our booth to learn more or visit careers.fcsamerica.com.

Proud sponsor of Nebraska.Code() and our local developer community



Optiv and Veracode for Better Application Security

Optiv's AppSec experts specialize in combining manual and automated testing to design and build an application security program that integrates across your development lifecycle. We've got you covered with security assessments for web, mobile, desktop and server applications, as well as connected devices and APIs.

The Veracode Continuous Software Security Platform is a cloud-native solution that contains all of the application security testing types you need in one place – static analysis, dynamic analysis, software composition analysis, and penetration testing – ensuring that you have a comprehensive view of your risk from design through build and deployment. Development teams can find flaws quickly with integrated and automated scans continuously running throughout the entire software development life cycle in the environments in which your developers work.

Together, we can help you identify and remediate vulnerabilities in your code before hackers can exploit them.

Why Optiv and Veracode

- We both take a programmatic approach to security, helping you reduce risk and mature your AppSec program
- Veracode is the only native SaaS AppSec solution. Combined with Optiv's technology integration expertise, this means you'll have scalable, flexible scanning on day one
- We empower you to "shift security left" by incorporating security into the software development lifecycle, lowering costs and improving ROI
- Our services and expertise reduce mean time to remediation by enabling your developers without slowing them down

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BREAKOUTS

JULY 20TH, 2023 | THURSDAY | 11:00AM



HOW TO NOT STRANGLE YOUR COWORKERS: RESOLVING CONFLICT WITH COLLABORATION

ARTHUR DOLER

Conflict at work is as inevitable as the tides - like the old joke says, if you put five software engineers in a room, you'll have seven opinions. Whether the conflict is over what language to use, what frameworks are the new hotness, or even just tabs vs spaces, conflict can get ugly. Tempers flare, positions are staked out in absolute terms, feelings are hurt, working relationships are destroyed... if only there were a way to avoid the negative consequences. What if I told you that there is? Let's take a journey together towards a wholly different approach to conflict - a collaborative one. In this talk, you'll learn how to use conflict to fuel better software, better teams, and better companies. You'll learn how to structure your team's environment to draw out good conflict, to squelch the bad conflict, and to handle conflict when it becomes personal. We'll discuss how to manage different confrontational styles, avoid self-sealing prophecies, and even how to deal with conflict when you lack control. Conflict should fuel your progress, not hinder it - and after this talk, you can make that happen.

WHAT THE HECK IS HTTP?

SCOTT MCALLISTER

You see it on the front of URLs. You know that it's important to APIs. When you write applications that are connecting to services on other machines you're using it. So you're likely using it in everything you build. But, what the heck is HTTP, really?

In this talk, we'll dive into the mechanics of HTTP starting from requests & responses, diving into nouns & verbs, and going deep into the mechanics of how authentication works over the protocol. Come join us as we learn all about something that most of us use everyday.

HANDS ON CODING WITH CHATGPT AND COPILOT

MIKE BENKOVICH

In this session, you will learn how to work with ChatGPT, a cutting-edge language model developed by OpenAI and GitHub CoPilot. It will cover the basics of ChatGPT, including how it works and how it can be integrated into various applications. We will also explore the potential use cases for ChatGPT, including natural language processing, conversational AI, and more. Attendees will be guided through a series of demos that illustrate how to work with ChatGPT in a hands-on manner, using tools such as GitHub and ASP.NET Core

METRICS - MOVING FROM WHAT IS EASY TO WHAT MATTERS

JOEL TOSI

Metrics are a good thing when we ground them in decisions we want to make. Metrics for the sake of having metrics loses its purpose.

In this session, we will walk through a simple way of grouping metrics - from easy to collect, to directional, to impactful. Along the way, we will give examples of metrics in each group - what they mean, why they are good, where they fall apart. All along working towards better metrics and the approach to collecting and using them.

Additionally we will introduce and show process behaviour charts - a technique that looks at data and helps separate noise from signal.

Leave this session with simple ways to group metrics and ways to interpret if your changes (product, process, or people) are making a difference.

MAKE ACCESSIBILITY EASIER TO GET RIGHT AND HARDER TO GET WRONG

AUSTIN GIL

Want to build accessible websites, but worried you're not an accessibility expert? Let's make things easier for everyone by building accessibility supports into the entire development lifecycle.

We'll look at integrating tools in: - Design tools - Code editor - Components - Browser - Tests - Git repos - CI/CD pipelines

This will help you and your team avoid some of the most common accessibility issues, and free up more time for the a11y folks to work on bigger issues.

ADVANCED TYPESCRIPT

BENJAMIN FERGUSON

Typescript continues to grow in popularity and is the standard for javascript precompilers. In this talk, we will explore some of the more useful language features that help you be more productive and confident in your code.

The majority of our time will be spent with live coding examples. Bring your laptop so you can clone my git sandbox and explore these features along with me. Some exposure to typescript is recommended, but not required.

BUILDING CONTINUOUS DISCOVERY HABITS AS A UX+PRODUCT+DEV TRIO

ANDREW ZETTERMAN

Whether you're a UX designer, developer, or product manager, creating great things is hard. Resources are tight, deadlines are tighter, and there is almost always more research that needs to be done. Creating continuous discovery habits in the face of real-world constraints can be the difference from feeling owned by those constraints or owning them.

Come listen to how the product team at Quantum Workplace foster a culture of empowered squads to better navigate obstacles, be relentlessly resourceful, and build great experiences for customers and users!

A GENTLE INTRODUCTION TO EVENT STREAMING AND PROCESSING USING APACHE PULSAR

MARY GRYRGLESKI

When it comes to distributed, event-driven messaging systems, we usually see them supporting either one of two types of semantics: streaming, or queueing, and rarely do we find a platform that supports both. In this presentation, we'll first get an introduction and some clarifications of event-driven versus message-driven systems, event streams, and stream processing. We'll then take a look at Apache Pulsar which offers a very unique capability in modern, cloud-native applications and architecture, in which its platform supports both Publish-Subscribe and Message Queues, and extends into streams processing as well as performs message mediation & transformation. ...

BREAKOUTS

JULY 20TH, 2023 | THURSDAY | 1:00PM



SOFTWARE ENGINEERING: THE GOOD PARTS

ADAM BARNEY

What attributes define a good software developer? Is it a degree from a 4-year institution? Will a 2-year associates degree suffice? Masters degree? What about experience? How much do you need to be a senior engineer? Are there specific languages and frameworks that make an engineer more valuable - not just in terms of salary, but their ability to make an impact on a project. If someone has 10 years of experience with Java, are they able to get a job as a senior .NET engineer?

Over the last few decades, I've been all over in the world of software engineering. Different companies, different roles, different tech stacks, etc. At this point in my career, I've started recognizing the skills, concepts, processes, etc. that make a person a great engineer. In this session, I'll talk through what I think are the most important ones.

EXTENDING THE AMAZON CLOUD DEVELOPMENT KIT (CDK)

RODRIGO RAMIREZ

Attendees will understand the benefits of creating their own extended version of the Amazon Cloud Development Kit. They will see how defining rules and setting up standards around CDK can enable better, safer and more maintainable infrastructure as code.

BUILDING GREAT LIBRARIES

CHAD GREEN

"Bad libraries build collections; good libraries build services; great libraries build communities." Whether you are building a class library containing common functionality to use within your company's products, a class library for your customers to be able to use your services, or the next great open-source project; you should take great care when building a class library so that it is easy to use and widely adopted.

During this session, we will talk about coding standards you should apply, documentation, dependencies, publishing, versioning, and handling breaking changes so that you can build class libraries that developers will enjoy using instead of those they curse at.

AGILE HEALTH CHECK

LUKE DEROWITZCH

Some key metrics to look at/review to do a quick health check for those utilizing Agile.

There are many agile pieces but most companies have the ability to look at a metrics and see what is missing, and more importantly, dive into the why of where they grade lower on the health scale.

- Team chemistry
- Team metrics
- Stakeholder engagement
- Prioritization
- Product review
- Feedback loop

IMPROVING YOUR UX DESIGN SKILLS AS A PROGRAMMER

TIM FRISCH

Do programmers really make bad designers? And does it need to be that way?

The delineation line between the roles of developers and designers tends to be pretty stark, and often the responsibility of designing for the user experience gets put squarely on the shoulders of the designer. But what about teams without a designer? Or programmers who crave a little more creative freedom? Or perhaps our mode of thinking about UX in general just needs a bit of an overhaul.

In this presentation, we'll talk about what it means to design with the end user in mind, and why it's so important that developers think about it, too. We'll discuss: * Why we worry about user experience at all, and what happens when we don't * Basic theories of UX that apply to just about everything * How to think like a user * Designing for UX even when you don't have a UI * Simple best-practices and resources to start upping your UX game

In the end the goal will not be to replace what designers do (we still have our uses...right?), but to shed light on an important aspect of software development that doesn't just stop with the designer.

TRAIN A DATA SCIENCE MODELS AT SCALE WITH AZURE MACHINE LEARNING

EVAN HENNIS

Do you want to get started with data science without fighting crypto fanatics for GPU cards? Do you want to see what Azure has to offer for training/deploying models?

In this talk, I will walk through the whole process. I will start with setting up the job, I will show how to connect to your workspace, I will then submit the job for training, I will walk through validating the model, and finally I will deploy the model.

EVIDENCE BASED PLANNING

SCOTT CONNERLY

This session is a practical guide to turning the hashtag of #NoEstimates into workable plans that arrive on-time and on-budget. We'll also talk about the two things you'll have to give up to achieve that predictability.

Key Takeaways: Break everything down smaller. Use historical data, not estimates.

Target Audience: Everyone involved in transforming an idea into a working feature in production.

WHY YOU (MIGHT) NEED AN INTERNAL DEVELOPER PLATFORM (IDP)

JAIME NISWONGER

This session will explore the value of an Internal Developer Platform (IDP), including a discussion of the potential benefits and an in-depth demo of an enterprise-grade IDP implementation. An IDP unites different techs/tools to automate repetitive tasks & lower the cognitive load developers require to operate in complex cloud-native environments.

This real-time demo will walk through an IDP with cloud provisioning, automated app deployments, self-service dev features, and integration with key open-source tools like K8s, ArgoCD, Crossplane, and Backstage.

Jaime will also cover the potential benefits of an IDP, including:

- Bringing a "self-service" approach to enterprise developers...
- Avoiding rogue architectures and cloud overspend by maintaining enterprise alignment...
- Providing a "single pane of glass" for application management...

BREAKOUTS

JULY 20TH, 2023 | THURSDAY | 2:30PM



BUILDING INGRESS - FROM CONCEPT TO CONNECTION

SCOTT MCALLISTER

At first glance, ingress is an easy concept: you route traffic from the wider world into your cluster. As you layer on SSL and load balancing, the principles stay the same and everything works with minimal thought and effort. But as your infrastructure grows, your clusters grow, the interactions get more complex, and your security requirements explode. In this session, I'll walk you through how we designed and built an Ingress Controller and have converted our clusters to use it in production to support millions of requests. It wasn't easy but running it as an open source effort from the start encouraged our team and customers to review, explore, and consider situations outside our original plans.

GETTING STARTED WITH KUBERNETES

VAIBHAV GUJRAL

Kubernetes, also known as K8s, is an open-source system for automating deployment, scaling, and management of containerized applications. In this session, Vaibhav will cover the basics of Kubernetes including the different components that make up a Kubernetes cluster, and how to get started with running Kubernetes locally.

A GENTLE INTRODUCTION TO DATA ENCRYPTION

JOEL LORD

RSA, TLS, SHA, MD5. So many acronyms and so little time dedicated to security. Security is more and more of a concern for enterprises nowadays. With some of the recent data leaks, and the astronomical fines associated with them, users and businesses want to know that their data is safe and secure. As a developer, though, security sometimes comes as an afterthought. Cryptography is a complex world, but it doesn't have to be complicated to implement. In this talk, the speaker will introduce the basic concepts of hashing and encryption and will follow to present how to use those encryption algorithms to store data in a database securely.

BECOMING AN AGILE SURVIVALIST IN A ZOMBIE SCRUM REALITY

JERRY KOSKE

In 2014 Dave Thomas, one of the founders of the Agile movement, famously stated that 'Agile is Dead'. But the reality is that agile isn't dead, it has become something far worse - the 'undead'. Shambling managers of 'agile' organizations are continually debating/embracing process to seek out the 'Braaaaiins'. Those with actual agility are scrambling to safety in hopes that they aren't consumed by the zombie horde.

Can you avoid those who are infected by their captivation to procedure? If not, can you gain immunity by selectively embracing effective aspects of their process? Furthermore, can this immunity aid in finding a cure through empirical observation and the rejection of ineffective practices? Is it possible to achieve this without endangering oneself?

Join Joel and Ellie... er..... an Agile Survivalist in an exploration of the infected, how to endure and survive, and maybe even how to purge the zombies in your environment.

WHAT THE HECK IS EDGE COMPUTING ANYWAY?

AUSTIN GIL

The Edge is the new frontier of computing possibilities, offering promises, opportunities, and it's own set of challenges. In this talk, we'll break down what it is, why it's awesome, and how it fits into your application architecture.

We'll cover things like: - What are the benefits - What are the limitations - When it makes sense - When it doesn't make sense - How to get started

GETTING STARTED WITH ROBOTICS

BRENT STEWART

Robotics is one of the hottest technology sectors and holds some of the most interesting potential for changing our lives. Come join me as I explore where we are on our journey to creating our future robot overlords. We will take a look at the impact of robotics on industry and talk about where we might be headed and how you can leverage your programming skills to stay ahead of the curve. We will also walk through getting started in robotics using inexpensive electronics and open source software. Come learn how you can control our future.

THE ART OF TECHNICAL DECISION MAKING

J.D. HILLEN

Developers are bombarded with technical decisions every day. What language should I learn? What framework should I use? What software will make my life easier? The list goes on and on. A simple decision can have rippling effects in your organization, both good and bad. Technical decision making isn't so much about which tool to pick, rather what problem to solve. In this presentation, we explore various approaches to technical decision making, including techniques for gathering and evaluating information, strategies for managing uncertainty and risk, and methods for involving and engaging team members. We also discuss best practices for evaluating the success and effectiveness of technical decisions. The aim is to provide a practical guide for technical leaders looking to improve their decision making skills and make more effective technical decisions.

FROM RETRO CLASSICS TO MODERN SOFTWARE: EMULATION'S EVOLVING ROLE IN COMPUTING

MIKE RAVENELLE

As hardware continues to evolve, emulation is becoming increasingly important for ensuring backward compatibility. While x86 architecture remains dominant, the ARM revolution is underway, raising questions about the compatibility of existing software stacks. This presentation will explore the use of emulation in modern operating systems and provide a deep dive into the mechanics of how it works.

What better way to understand emulation than by writing your own emulator? Using the Chip8 microprocessor as an example, we will walk through the process of writing our own emulator from scratch to learn the ideas and principles of emulation. By the end of the presentation, attendees should have enough knowledge to begin creating their own retro emulators. If you are interested in running software or video games on hardware that they were never intended to run on, join us for an hour of processor architecture emulation nerd talk.

BREAKOUTS

JULY 20TH, 2023 | THURSDAY | 4:00PM



SERVERLESS TRIGGERS

RYAN EBKE

There are so many amazing ways to integrate serverless functions into your existing and upcoming environments. For this presentation we will be focusing on the many different types of functionless triggers that are available both in AWS Lambda and Azure functions. Many events from HTTP triggering calls to blob storage events can be used to trigger your serverless functions with very little configuration or maintenance on your part.

ADVANCED .NET TESTING WITH IN MEMORY EF AND HOSTED APIS

EVAN HENNIS

Do you want to test all of your Entity Framework queries without setting up a test database? Do you want to test your API without leaving Visual Studio? Do you want to add integration tests to your CI build without adding another library? Do you want to "cheat" and hit 95%+ code coverage? In this talk, I will walk through using the WebApplicationFactory (Microsoft.AspNetCore.Mvc.Testing) library to spin up your API in memory. I will then show how to add an in-memory data connection. Finally, I will pull it all together and show a full integration test.

FIGHTING THE SABOTEUR IN YOUR RELATIONSHIPS: DEALING WITH COGNITIVE BIASES

ARTHUR DOLER

Modern software requires the efforts of a coordinated, dedicated team of individuals. We need to work with other people, and in order to do that, we have to maintain relationships with them. But no matter how polite, conscientious, or amiable you are, there's still something that's always working against you - your own brain, and its host of cognitive biases. For the last several years, books and podcasts and presentations have warned of the danger of cognitive biases, but we just haven't had the ammunition to fight against them effectively... until now...

WHAT'S WRONG WITH AWS

DAVID KERBER

AWS created the cloud computing segment and is the biggest player in the space. It has a lot of good parts but across over 200 "two pizza teams" some confusing things have shown up. In this talk, we will cover some of the more problematic parts of AWS and what you can do to get through it.

BEING STRONG IN THE WAYS OF FLOW

WENDY URBANEK

As agilists, we are told to "stop starting and start finishing more" - but what does that really mean? We are told to "limit your WIP" - but why? We're supposed to avoid un-planned work - but how can a little un-planned work hurt us? Let's explore flow theory through the lens of Kanban Systems. We will cover the basic value and principles of Kanban and then experience working in a Kanban System using the getKanban Board Game. The getKanban Board Game is a physical simulation designed to teach the concepts and mechanics of Kanban for software development in a class or workshop setting. It's hands-on, engaging, and fun!

UNIT AND INTEGRATION TESTS - A TAKE ON IMPLEMENTING IN REACT

AARON SAYLES

Hear "Test Driven Development" and cringe? Hear it and rejoice? Hopefully we'll have something for both of you! I intend to offer up my approach when it comes to unit and integration tests in a project that uses React. We'll go over tools available (such as Jest / Testing Library) and how we can implement them, along with some Storybook in the mix. But overall the goal is to provide automated tests that are NOT fragile, are consistent, and aren't a pain to write...

THE PERFORMANCE TESTING PROCESS: BEFORE, DURING, & AFTER

DAVID HANDLOS

We all want software to run as fast as possible, and performance testing can help make that happen. But often, it's the steps before and after the testing that don't get nearly the focus they should.

As a result, performance issues might get missed during testing, or they might not get properly fixed if they are identified...or they might even creep back in later during another development cycle.

To get past that, it often helps to think of performance as an entire process, instead of just a series of tests. For this session, we'll go into detail about the "Before", "During", and "After" phases of this process. We'll cover what kind of questions that should get asked before any tests even start, how to adjust during the testing phase when the unexpected happens, and after tests are done, what can be done to leverage those results and put those lessons learned to use for the future.

THE NEXT FRONTIER IN OPEN SOURCE JAVA COMPILERS: JUST-IN-TIME COMPILATION AS A SERVICE

RICH HAGARTY

For Java developers, the Just-In-Time (JIT) compiler is key to improved performance. However, in a container world, the performance gains are often negated due to CPU and memory consumption constraints. To help solve this issue, the Eclipse OpenJ9 JVM provides JITServer technology, which separates the JIT compiler from the application.

JITServer allows the user to employ much smaller containers enabling a higher density of applications, resulting in cost savings for end-users and/or cloud providers. Because the CPU and memory surges due to JIT compilation are eliminated, the user has a much easier task of provisioning resources for his/her application...

STOP STOPPING AND START PRESENTING: PRACTICAL TIPS FOR SPEAKING AT YOUR FAVORITE TECHNOLOGY CONFERENCES

BRANDON BRUNO

You attend all the best tech conferences year after year. You love the varied topics, meeting up with friends, and indulging in great food and drinks. But something's still missing: your chance to shape your favorite conferences. Don't just be an attendee - be a participant by sharing your knowledge as a speaker. Take it from someone who hates public speaking: it's actually pretty fun!...



The Science of Software

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KEYNOTES

JULY 21ST, 2023 | FRIDAY



DESIGNING A GREAT PRODUCT ORG: LESSONS FROM 15 YEARS OF SUCCESSES AND SCREW UPS

JOHN WIRTZ

How you structure your team impacts every aspect of your work - who you can hire, how fast you can move, how close you are to your customers, how happy your team members are, and how much value you bring to the world.

There's no playbook out there for how to best organize engineers, product managers, designers, QA, scrum masters, leaders, and all the other roles to deliver amazing work. There's plenty of conflicting advice, though. And it just gets harder as you grow.

We've tried to be extra thoughtful at Hudl in how we organize our team. Even with the best intentions and lots of work, we've fallen on our face more times than we'd like to admit. In this presentation, I'll talk through our journey from three co-founders to a global product team of 300+ and share some lessons that will hopefully help you avoid paying tuition we've already paid.

We've organized based on products, user-workflows, platform areas, personas, markets, technology, and individual "bets". We've had "core" teams, R&D teams, Bet teams, operations teams, and everything in-between. I'll share the pitfalls and wins with some tactical advice that is meant to help anyone working on a team and anyone helping design organizations.

LIES DEVELOPERS TELL THEMSELVES

BILLY HOLLIS

All humans sometimes deceive themselves, and developers are no exception. From "I can get this done in a week" to "My job is to write code", developers often convince themselves of things that are only partially true - or even outright ridiculous.

These seductive-but-false notions are factors in everything from poor software quality to unnecessary stress on developers and other team members. In this session, developer/designer/architect Billy Hollis will bring out his top ten uncomfortable truths about software development, with some humor to make them easier to hear.



agileLNK was created to help the agile community in the Lincoln, NE area grow in the knowledge of agile project management, agile development practices, Scrum/Kanban knowledge, and integrating agile methods throughout organizations. We are committed to fostering a positive and innovative learning environment that encourages members to collaborate and to share successes and failures for the betterment of the group.

Follow on Twitter (@agileLNK) and on Facebook (agileLNK).

BREAKOUTS

JULY 21ST, 2023

FRIDAY

11:00AM



PROMOTING DIVERSITY AND INCLUSION IN THE TECH WORKPLACE

GLORIA EDDINS
NICK HERSHBERGER
AMANDA MARTINEZ
NATHAN RIVERA

This panel of technology industry professionals will explore inclusion and diversity topics, focusing on the best practices for promoting diversity and inclusivity in the workplace. The panelists will discuss the importance of creating an environment that fosters inclusion and respect for all employees, regardless of their race, gender, ethnicity, or other characteristics. They will also provide practical advice on establishing an organizational culture that embraces diversity, to improve recruitment, retention, and overall employee satisfaction. The panelists will also touch on how to produce and maintain an ERG and the implications associated with fostering a diverse workplace with resource groups. Ultimately, the goal of this panel is to provide attendees with a better understanding of how to create and maintain an inclusive and equitable work environment within a technical organization. Q&A and audience participation are encouraged in during the session.

MEMORY FIRST: AN INTRODUCTION TO REDIS

GUY ROYSE

Odds are, you've heard of Redis. Maybe you're a total noob and want to learn all about it. Maybe you've used it to cache an API call or some JSON strings and want to know what else it can do. Maybe you haven't heard of Redis and are curious what all the fuss is about. Wanna find out? Join me as I explain what Redis is—a wicked-fast, memory-first database—and why you should care. I'll share with you what it can store, how you can access it, and how you can make sure that what's in memory is still there when the power goes off. We'll explore how you can extend Redis—adding new commands, new data structures, and new capabilities...

UTILIZING SECRETS IN YOUR C# MVC PROJECTS AND AZURE SERVICES WITH AZURE KEY VAULT

BRIAN GORMAN

You are a developer and you have knowledge of secrets. You're aware that you should not be putting secrets into GitHub (or any other SCM service). How do you prevent the secret from getting checked in? Is there a tool at Azure that can be easily leveraged for managing secrets? When you deploy, how do you get the secret from Key Vault into your Azure App Service? Is there a way to share a secret across multiple services at Azure?...

MODERNIZING FRONTEND FOR THE ENTERPRISE

JARED DIETZ
GUNNAR GUSTAFSON

Come explore how First National Bank of Omaha modernized their front-end development practices by adopting a design-focused approach that leverages UI designs, React component libraries, utility-first CSS with Tailwind, and Storybook. They also implemented mock-service-worker, which enables developers to simulate API responses in a controlled environment, reducing the dependency on real API endpoints during the development process. This approach has improved the overall speed and efficiency of their development process, while ensuring a consistent and visually appealing user experience. The success of this effort resulted in the creation of a Frontend Community of Excellence that is focused on being the authority for frontend best practices and on continuously improving frontend development at the bank.

OPTIMIZING OUR INTERACTIONS WITH LIBERATING STRUCTURES

WENDY URBANEK

When you feel included and engaged, do you do a better job? Do you think teams in which people work well together produce much better results? Have you noticed the best ideas often come from unexpected sources? Do you want to work at the top of your intelligence and give the same opportunity to others?...

THE NEXT.JS BIG THING

TYLER SANDERSON

Next.js is a powerful React framework that provides the capability to create highly performant full-stack web applications. The flexible rendering and caching options Next.js makes available can be used to create applications with a better developer experience that are not only fast but also have optimized SEO and are more secure. In this session, you will learn about the options Next.js provides for client and server-side rendering, API routes, image optimization, styling and more.

TO INSTANTON AND BEYOND: JAVA AT LIGHTSPEED!

RICH HAGARTY

Next.js is a powerful React framework that provides the capability to create highly performant full-stack web applications. The flexible rendering and caching options Next.js makes available can be used to create applications with a better developer experience that are not only fast but also have optimized SEO and are more secure. In this session, you will learn about the options Next.js provides for client and server-side rendering, API routes, image optimization, styling and more.

KNATIVE: A KUBERNETES FRAMEWORK TO MANAGE SERVERLESS WORKLOADS

NIKHIL BARTHWAL

...This talk describes how Knative enables you to focus just on writing interesting code, without worrying about the "boring but difficult" parts of building, deploying, and managing an application. It shows how developers can even use familiar idioms, languages, and frameworks to deploy any workload: functions, applications, or containers....

PLATFORMING: BUILDING A PAAS FOR YOUR CUSTOMERS, YOUR TEAM, OR YOURSELF

JAKE PARTUSCH

...In this talk, we will learn about the basic building blocks of a Platform as a Service, and use this knowledge to implement a custom "Netlify-like" PaaS product using AWS, CDK, and TypeScript.

BREAKOUTS

JULY 21ST, 2023 | FRIDAY | 1:00PM



JAVASCRIPT: THE (REALLY) GOOD PARTS

BRANDON BRUNO

Ja...Let's dispel some myths and study the best features of JavaScript from classic ECMAScript 3 (1999) through the latest and greatest of ES2022. If you're still using jQuery or other libraries to fill functionality gaps, this session is all about modernizing your JavaScript while learning to appreciate how far it's come. Concepts include arrow function expressions, classes, template literals, generators, optional chaining, fetch, promises, and much more.

CRYPTOGRAPHY 101

ROBERT BOEDIGHEIMER

Learn the fundamentals of cryptography, including public/private and symmetric encryption, hashing, and digital signatures. Discover which techniques are appropriate for various situations. Review practical real life examples for storing passwords, protecting URL parameters, securely exchanging information with partners, and safely encrypting sensitive information on public web sites. Concepts apply to all platforms, examples will be in C#.

RIGHTING CODE WITH SOLID DESIGN

JIM KUDIRKA

Have you ever worked on a software project that felt like a death march? Where you had no hope of success and even if you did release it, you knew it wouldn't last long. Have you ever been afraid to make code changes because you weren't sure if you were going to make the problem worse? Are you unsure how you should structure your code and software components?...

We will walk through a few examples demonstrating how simple design techniques can drastically improve development efficiency and the supportability of our code. We will begin with a complex bloated service and walk through how we can apply SOLID principles to improve the design and our productivity. As a result, you will be armed with code design techniques that will set you up for greatness!

USER STORY MAPPING

JEREMY SUING

Story Mapping is a technique that provides the big picture that a pile of stories in a backlog so often misses. By arranging stories in a useful shape, a map, you can see what you are working on, validate nothing is missing, and promote stronger product understanding throughout the development lifecycle. In this session, I will go through a couple of story mapping processes to help build confidence and therefore quality into your product development.

FILE NEW: BUILD A EVENT-DRIVEN ARCHITECTED MICROSERVICE FROM SCRATCH

CHAD GREEN

Event-driven microservice architectures provide a versatile approach to designing and integrating complex software systems with independent, encapsulated components. During this session, we will focus on the how by starting with an empty Visual Studio solution and building a complete event-driven architected microservice to solve a real-world problem. You will see firsthand how to design, develop, and deploy a decoupled, encapsulated, responsive, scalable, and independent solution. We'll talk about potential pitfalls, and you will see how to get around them.

WHO GOES THERE? ACTIVELY DETECTING INTRUDERS WITH HONEYTOKENS

DWAYNE MCDANIEL

When attackers gain access to a system, they immediately look for ways to gain more control. One of the easiest ways to expand their presence is to find plaintext credentials lying around in code, config, or logs. By the time an intrusion is detected, it is likely too late. What you need is an alarm to let you know someone is intruding while they are intruding. That is where honeytokens come in. Honeytokens are credentials that don't actually grant any access, instead triggering alerts that report the intruder's activity.

If you are working to detect and stop intruders in their tracks, then this session is for you.

Takeaways: Understanding how honeytokens work
Maximizing the impact of honeytokens
Deploying honeytokens at scale with automation
Open Source and Enterprise options

TERRAFORM AT SCALE

JACOB CHARLES

Terraform is a great tool to write your infrastructure as code. It can be challenging to get started and find the best practices. This session will be packed with information and examples on how to use Terraform at scale. We'll look at best practices, Terraform within CI/CD, using Terragrunt and CDKTF. The demonstrations will be within the AWS environment, however, concepts can apply for all cloud or on premise providers. After this session you will be able to setup Terraform with reusable modules configurable by environment.

LEANING INTO SYSTEM MODERNIZATION

SHELLY ANZALONE

Many of us are dealing with aging systems in our technology environments. We are being tasked with keeping these systems updated, adding new features and finding ways to modernize the technology and the skillsets of the people who support them. System modernization is a risky, difficult and highly intellectual process involving multiple stakeholders that can take years!

We will cover this topic by sharing highlights on approaches she has taken, giving examples of how team members are key to success, talking about ways to get people excited for the changes and strategies for effective communication throughout the process. Shelly has more than 20 years of experience leading technical teams at several major Omaha companies, with the last 8 years focused on leading software development teams. She earned her Master's in MIS from Bellevue University. Her passion is growing highly effective technical teams who enjoy the work they do and have fun doing it.

BREAKOUTS

JULY 21ST, 2023

FRIDAY

2:30PM



PATTERNS & PRACTICES OF IMPLEMENTING EVENT-DRIVEN MICROSERVICES

NIKHIL BARTHWAL

Event-Driven Microservices architecture has gained a lot of attention recently. The trend in the industry is to use Microservices to innovate faster. While Microservices have their benefits, implementing them is hard. One drawback is the problem of distributed data management, as each Microservice has its own database. Event-Driven Architecture enables a way to make microservices work together and the talks show how to use architectural patterns like Event Sourcing & CQRS. Another challenge is to manage transactions that update entities owned by multiple services in an eventually consistent fashion. This challenge is solved using sagas! The objective of the talk is to show how to implement highly distributed Event Driven Microservices architecture that are scalable and easy to maintain.

RESCUING YOUR GIT REPOSITORIES USING AMEND, RESET, REVERT, REBASE, BISECT, AND CHERRY-PICKING

BRIAN GORMAN

I just pushed a commit to remote main instead of my branch! Help! We merged two features to main but now only one of them needs to go to production without losing the code for the other one ASAP - what do we do? I messed up my branch on rebase, and I can't figure out what happened, but I think I lost my work, can you help? I accidentally put a secret into GitHub and I need it to look like that commit never happened or I might get fired! In this session, we'll discuss the GIT commands of Amend, Reset, Revert, Rebase, Bisect, and Cherry-Picking to perform surgery on our repository when the stuff hits the fan.

CLEAN ARCHITECTURE AND DOMAIN DRIVEN DEVELOPMENT

KEVIN LOGAN

Attendees will consider the importance of architecture on the success of a product over time and be introduced to how Domain Driven Design interacts with clean architecture.

- Attendees thinking about architecture
- Share we've learned from reading Clean Architecture by Uncle Bob Martin in an [Omnitech book club](#) and presenting about the subject.
- Introduce Domain Driven Design (DDD) and new things I've learned since reading Clean Architecture at Omnitel through a series of lunches using [Pluralsight](#) and through [Domain Modeling Made Functional: Tackle Software Complexity with Domain-Driven Design and F#](#) by [Scott Wlaschin](#) book.

TECHNICAL AGILITY - WHAT IS IT AND WHY DOES IT MATTER?

MARK FULLER

Technical agility refers to a broad range of practices that we need to hone with our teams to truly be agile. In this session we will go broad into topics like:

- Source control
- Technical standards
- Code quality / refactoring
- Test Automation
- Security testing
- CI/CD and secure pipelines

and talk about how these power or anchor the agility of your team.

FROM CORE TO CONTAINERS TO ORCHESTRATION

MIKE BENKOVICH

Azure started as a Platform as a Service with Cloud Services, but since it launched has evolved to include several newer and very useful options for compute. Depending on your hosting model and how you do DevOps, requirements for scalability and availability you have tradeoffs that affect your long term costs and decision.

In this session we look at how containerization has altered the landscape and to go from a monolith mindset to microservices requires more than wishful thinking or a management edict. As the cloud advances we need to understand the tradeoffs between compute options and make smart decisions on what makes the most sense to ensure you can get where you're going.

SHIFT GEARS WITHIN INFORMATION SECURITY

STEVEN CARLSON

This talk will be focused on discussing war stories from a product architect/engineer who lives within an information security department and is passionate about driving change. Attendees will get to experience a few different routes that have led to success and others that might need to be avoided. As an ever-evolving space, when reducing risk and deploying safe products to the market, we all have to find the correct gear to get us down the road.

WHY YOUR NEURAL NETWORKS SHOULD BE MULTI-TASKING

CHRIS POWELL

In this presentation, I will discuss how Hudl is using multi-task models to clip sports videos into plays and also how we determine the formation of an offense in American football. After we talk about what multi-task models are and how they can be used, I will share some of the challenges we have run into that differ from a traditional model output.

USING PULUMI AND TYPESCRIPT TO MANAGE AWS INFRASTRUCTURE

ZACH PERKINS

We'll go over a couple use cases for using Pulumi to manage AWS infrastructure with Typescript as the primary language for your Pulumi configuration. Attendees will have the opportunity to learn some basic Pulumi functions, even if they're not familiar with Typescript!

BREAKOUTS

JULY 21ST, 2023 | FRIDAY | 4:00PM



RECLAIMING YOUR FREEDOM

RACHEL MICHAELA BRADLEY

There are many misconceptions about free and open source software, especially in more traditional enterprise environments. There is a lot of FUD around the impact that it has on the control and profit that can be achieved when compared to proprietary software. It can be difficult to find information about how to incorporate free software into a business, how to build a business based on free software, or even how to embark on a solo career as a free software developer....

SECURING COMPLIANCE: THE FUTURE IS AUTOMATED

ROSS COUDEYRAS

How, and why, do we want to automate security and privacy compliance? This session will dive into how to save time when facing compliance frameworks, whether it be regulatory or customer-driven.

Tired of tracking compliance items in a spreadsheet? Security automation tooling will help alleviate the burden of old-school audit processes. The goal is to gain an understanding of today's tooling that automates privacy compliance and other frameworks....

DO YOU KNOW WHERE YOUR SECRETS ARE? EXPLORING THE PROBLEM OF SECRET SPRAWL AND SECRET MANAGEMENT MATURITY

DWAYNE MCDANIEL

...This session will deep dive into the research around secrets sprawl and compare it with historical data to show how much worse the situation is becoming, as well as what type of secrets are most commonly involved. We will also explore how to evaluate the maturity of your secrets management strategies and what steps you might consider next on your security journey.

In this session, you will:

Hear about the state of secrets sprawl and Discover the most commonly leaked credentials See how you can stop secrets sprawl in your organization by shifting left Learn to measure your secrets management maturity

THE AGILE ARCHITECT: BUILDING PRODUCT FROM THE TRENCHES, NOT THE TOWER

BRANDON SUPONCHICK

In this talk you will learn:

- What software architecture is, what an architect does, and why it's so difficult to define
- Embracing change with Evolutionary Architectures
- Ways to influence software architecture outside the codebase
- How to instill an architectural mindset in software development teams

In today's agile world, software architecture still plays a critical role. If you're considering software architecture as a potential next step in your professional journey, join us and learn how to be effective in the role.

MAKER TO MANAGER

ANNE RUSKAMP

So you think you want to manage?

The transition of transitioning from being a contributing member on a team to managing in any capacity is challenging to say the least.

In this session, we will discuss the differences between these roles, how to know which role is a fit for you, and navigating the transition.

BOOTIFY.IO: A QUICK WAY TO START A NEW SPRING BOOT APPLICATION WITH BEST PRACTICES

MATT PAYNE

It's one thing to read about spring boot, spring data JPA and other technology. It's even better to generate a short, self-contained, correct ready-to-run example quickly.

Thomas Surmann's [Bootify.io](#) web application is fabulous for learning or starting a new application. Come learn about the SaaS web application [Bootify.io](#), the "Best developer experience for starting Spring Boot apps - best practices included." We'll discuss and work through... (bring your laptop if you'd like to play along)...

CREATING TEXT USER INTERFACES WITH PYTHON

MIKE DRISCOLL

A text-based user interface (TUI) is a way to create a GUI in your terminal. [Textual](#) is a Python framework for creating TUIs that is inspired by modern web development...

You will discover how to do the following in this talk:

- An Intro to text-based user interfaces
- The elements of a Textual application
- How to create your first TUI
- Examples of other cool TUIs

This will be a code heavy talk and cover a lot of ground. However by the end of the talk, you will walk away with the knowledge of how to create your own application with Python!

PREPARING STUDENTS FOR COMPUTING CAREERS

**CHRISTOPHER BOHN
CHERYL NELSON**

The leaders of the School of Computing's Senior Design program, and of the Raikes School of Computer Science and Management's Design Studio program, at the University of Nebraska-Lincoln will discuss how they partner with industry to provide upper-level college students with experiential learning opportunities. These programs are the capstone programs for their respective schools in which their students complete a project to demonstrate what they had learned in the previous 2-3 years. Both Senior Design and Design Studio have adopted a model in which they team up with industry sponsors to provide students with projects that have real-world relevance. While the talk will focus on the benefits to students during their capstone program and during their transition to the workplace, we will discuss other benefits to all involved as well.

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Nebraska Tech Collaborative

Partner Investment

We are an Aksarben Foundation workforce initiative convening leaders across the state to attract, develop, and retain tech talent and entrepreneurs to enable greater economic prosperity in Nebraska.

Focus Areas and Initiatives Underway

Emerging Talent

NTC Scholars

Engaging NE based tech interns through peer and partner networking events

Teacher Externships

Strengthening teachers' tech skills through an immersive summer experience with NTC partner companies

Skilled Talent

Engineers in Residence

Pilot to connect engineers to startups for an immersive product dev support experience

Laid off Tech Worker Support

Streamlining a process to connect laid off tech workers to positions with NE based companies

Innovators

Pioneers

Connecting NE innovators in an annual cohort to grow the startup ecosystem

Pitch Days

Connecting high-growth tech startups with NE companies to pitch their product

TEN Podcast, NTC Webinar, & Monthly Newsletter

Elevating stories of NE based innovators and highlighting NTC and Partners progress

Improving diversity, equity, and inclusion in Nebraska is part of all that we deliver

NTC Partner Value



Collectively strengthen talent attraction & retention priorities



Grow initiatives by joining an advisory group



Build relationships across the state at partner events



Expand your employer brand & opportunities statewide



Propel the tech startup ecosystem towards economic impact



Annual Investment
(100% tax deductible)
\$2,500-\$4,500 - Storytelling Partner
\$5,000-\$9,500- Startup Partner
\$10,000-\$19,500 - Tech Talent Partner
\$20,000+ - Premier Partner



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SPEAKERS



AARON SAYLES

I've been programming professionally for over a decade, dabbling with both frontend and backend throughout my time. Several years ago, however, I connected especially with ReactJs and have made efforts to focus on the frontend space ever since. I love the challenges this space constantly throws my way, pushing me to think outside the box regularly to not only provide solid solutions but to make the developer experience shine as well.

ADAM BARNEY

Adam is a nerd. That kept me humble and nearly friendless (sniff) through school, but he wears it as a badge of honor now. After buying a Commodore 64 with money from his paper route in the 4th grade, he's never stopped learning about computers and how to make these stupid machines do cool things. When he's not slinging code for his 9-to-5 job, he's slinging code for himself to keep current on things, playing with electronics and IoT, 3D printing, and watching far too much TV.

AMANDA MARTINEZ

No biography provided.

ANDREW ZETTERMAN

No biography provided.

ANNE RUSKAMP

Anne has spent her tenure in software engineering within the Nebraska Global family of companies and most recently has moved into the role of Principal Engineer at Don't Panic Labs. Having both gone deep on a single product for nearly a decade and also wide through a variety of domains in professional services, she has a unique perspective of the challenges and opportunities faced by developers and teams.

ARTHUR DOLER

Arthur (or Art, take your pick) has been a software engineer for 19 years and has worked on things as exciting as analysis software for casinos and things as boring as banking websites. He is an advocate for talking openly about mental health and psychology in the technical world, and he spends a lot of time thinking about how we program and why we program, and about the tools, structures, cultures, and mental processes that help and hinder us from our ultimate goal of writing amazing things. His hair is brown and his thorax is a shiny blue color.

AUSTIN GIL

Over the last ten years, I've built projects for award-winning agencies, innovative tech start-ups, and government organizations. Today, I create cool stuff for the web and share what I learn through writing, open-source, YouTube and Twitch, The Function Call, speaking and workshops.

BENJAMIN FERGUSON

Professionally, I am a senior programmer/analyst with Duncan Aviation and have been developing software ever since graduating from SCC - Milford in 2002. I enjoy presenting at local conferences and schools to give back to the developer community in Lincoln, NE. Personally, I am a husband and father of 5. I'm also a youth minister, worship leader, football coach, and a mentor.

BILLY HOLLIS

Billy Hollis is a UX generalist, developer, software architect, author, and long-time speaker at major tech conferences. He leads a team of world-class multi-platform developers at Next Version Systems, where the team creates and implements trailblazing UX designs for companies from Fortune 100 down to medium-sized technology companies. Billy has been recognized by Microsoft both in their prestigious, business-oriented Regional Director program, and was a Microsoft Most Valuable Professional (MVP) awardee for fifteen years. He has also done video courses for Pluralsight and LinkedIn Learning.

BRANDON BRUNO

Brandon has been hacking away at code since a dusty Commodore 64 appeared from his parents' attic in the early 90's, but has spent the last 15 years building client solutions with .NET, JavaScript, and Sitecore. A former Solutions Architect and 2018-2021 Sitecore Technology MVP, Brandon is now a Solutions Engineer at Sitecore, Inc. He focuses on solution architecture, content management, application security, and dodging Atlanta traffic.

BRANDON SUPONCHICK

Hi I'm Brandon. I'm a problem solver at heart, and my medium is software. I've spent the last 18 years in the software industry helping to make a positive impact in the lives of my customers. I've been developer, technical lead, solution architect, cloud architect, manager and mentor. In my current role I manage a team of around 100 engineers spread across 15 or so projects and the entire country. I believe that, in our industry, we have a huge potential to create positive impact. It's really hard to change the world, but as Software Engineers, we can change the world for someone. The moment when you can use technology to show someone that the problem they've been dealing with for years can truly be better is an amazing experience, and I love sharing my passion for making impact with others in our community.

BRENT STEWART

As a professional software developer with over two decades of experience, I have seen many development trends come and go and learned that there is not a shortcut to being a great developer. I enjoy teaching others what I have learned and try to mentor others whenever I can. I am a co-organizer of the Kansas City .NET User Group and love speaking at conferences. I am a creator at heart and have started multiple businesses over the years in a variety of industries. My latest venture is Alien Arc Technologies which allows me to take my ideas and give them form. I love quality in all things and I always try to provide the best quality in everything I do. If it is worth doing, then it is worth doing right.

SPEAKERS



BRIAN GORMAN

Brian is a Microsoft Azure MVP and is an experienced speaker, author, trainer, and .Net developer with MCSA: Web App Certification, MCSD: App Builder, AZ-900/104/204/220/303/304/400/500, DP-900/300/420, and MCT (4th Year) certifications. Brian has a masters of science degree in computer information systems, and a bachelor of science degree in computer science. Additionally, Brian has over ten years of experience instructing college courses online in SQL databases, C#/VB.Net/and Java object-oriented programming, and Microsoft Office. Brian has created many online technical training courses that can be found online on various platforms. Brian has also published a couple of books with APress entitled "Practical Entity Framework" and its second edition for EFCore6. Brian's next book, entitled "Developing Solutions for Microsoft Azure Certification Companion" is due to be published in late May.

CAITLIN CABRERA

Caitlin writes about infosec, Ruby on Rails and works as a Software Engineer at Kolide. Caitlin has a masters degree in Computer Science and enjoys teaching others about what she's learned in both academia and industry. Caitlin is from Louisville, KY and is probably lifting weights when she's not writing code.

CHAD GREEN

Chad Green is a manager, software development, architect, community leader, Microsoft MVP, and most importantly a father and husband. Over his career spanning three decades, Chad has managed groups from 3 to 63 people, worked on projects in a wide range of markets including education, healthcare, military, government, workforce management, financial services, chemical research, and electronic commerce. Being a big believer in giving back and wanting to ensure that there are cool events for others, Chad founded and chairs the annual Code PaLOUsa conference,

organizes the Louisville .NET Meetup user group and the Monthly Tech Leader Coffee and Discussion, and has helped other groups like the Louisville Tech Ladies and events like Cincy Deliver.

CHERYL NELSON

No biography provided.

CHRIS POWELL

A few things to know about me is that I like to live an active lifestyle: hiking, paddleboarding, sports, etc are some of the my favorite activities. I've been fortunate to travel often in my life to places like: Singapore, Paraguay, Rome, Sydney, Nairobi, etc. And most importantly, I'm a husband and father. Often times, you can find me taking some action with the point of making those people in my life happier. Professionally: Earned a bachelor's degree in Mass Communications at Kansas State University, focused coursework in advertising and journalism. Earned another bachelor's degree in computer science from University of Colorado at Boulder.

CHRISTOPHER BOHN

Dr. Chris Bohn is an Associate Professor of Practice and the School of Computing's Assistant Director for Capstone at the University of Nebraska-Lincoln. He holds a bachelor's degree in electrical engineering from Purdue University, a master's degree in computer engineering from the Air Force Institute of Technology, and a doctoral degree in computer & information science from The Ohio State University. He is the author of the textbook Programming at the Hardware/Software Interface published by Great River Learning.

DAVID HANDLOS

David is an engineer with 20+ years of IT experience working in software development, quality assurance, and data science. He has been designing and implementing customized automated performance testing solutions since 2005 for environments supporting thousands of customers per hour. David is currently a Sr. Software Engineer at Q2 Software, a leading provider of digital banking and lending solutions.

David is currently a Sr. Software Engineer at Q2 Software, a leading provider of digital banking and lending solutions.

DAVID KERBER

I've been in technology for 18 years and led teams of engineering, product, user experience, sales, and operations professionals. I've consulted with dozens of companies and led product and engineering teams in cloud security and commerce. I ran my own consulting firm for 8 years. I've also had the opportunity to work in startups during seed, rapid growth, and later growth stages. I've coded in Java, Groovy, Ruby, PHP, Node/Typescript and worked with tons of technologies along the way. I have built cloud governance and security software for AWS, Azure, and Google Cloud. Currently I am advising Fortune 500 companies on security and compliance in AWS.

DONA SARKAR

Hi, I'm Dona and I cause corporate shenanigans. What is that? That's taking that feeling of, "Is it seriously Monday again" and turning it into, "I can't wait to see what we do tomorrow" at work. Yes, at work because work can be fun! Currently, at my day job, I'm causing shenanigans as the Director of Tech for Microsoft Accessibility. This is a REALLY cool job because I get to work with every product team to make sure we're considering accessibility for all of our thousands of products. This is so the 1.3 billion (yes, with a B) people on earth who live with a disability, neurodiversity, or mental health concern can live freer and better lives. Did you know the spending power of this audience is around 8 trillion (I know!)?

Anyway, I'm also a speaker (my fave audience is corporate leaders), a business coach, and a multi-published author (it turns out fiction writing is really useful in software!). I'm the owner of the ethical luxury fashion brand called Prima Dona Studios and I have (very) recently become a restaurateur. A few years ago, I was named one of Fast Company's 100 Most Productive People and Cosmopolitan magazine's Businessperson of the Year for my multi-faceted (aka weird) life. And yes, I'm always ready to get on a plane and come see YOU.

SPEAKERS



DWAYNE MCDANIEL

Dwayne has been working as a Developer Relations professional since 2015 and has been involved in tech communities since 2005. He loves sharing his knowledge, and he has done so by giving talks at over a hundred events worldwide. Dwayne currently lives in Chicago. Outside of tech, he loves karaoke, live music, and performing improv.

ERIK SHAFER

Erik is a software engineer with a passion for learning, designing, implementing, and teaching solutions. His current adventure is in e-commerce where he builds maintainable, resilient, replayable, observable, and high-performance systems for an industry that never sleeps. He has designed, built, migrated, refactored, and maintained systems in .NET, JVM, and even some NodeJS.

Current obsessions include event sourcing, CQRS, event-driven architecture, distributed and observable systems, and breaking down complex business domains.

When not working with software or developing solutions for the business, he enjoys powerlifting, traveling, listening to heavy metal, and playing either online games or tabletop games like Dungeons & Dragons.

EVAN HENNIS

Evan is a Google Developer Expert in Machine learning. He has a computer science degree from Iowa State and a master's degree from Georgia Tech with a specialization in machine learning. During the day, he is a software engineer at Microsoft. He has been writing .NET code for the last 19 years. He recently started teaching 'Advanced C#' at Des Moines Area Community College.

GLORIA EDDINS

I have worked for the state of Nebraska for almost 20 years, starting out at Game and Parks. I moved to Department of Administrative Services 9 years ago. I became the State's ADA coordinator in 2019. I promptly completed my ADA Coordinator Certification through the Great Plains ADA. I serve on the State Rehabilitation Council for Vocational Rehab. I serve on the Olmstead Steering Committee for Health and Human Services.

I am also a board member for my local neighborhood organization and serve the city of Lincoln on the planning commission. I am passionate about accessibility. My hope is to continue to open doors that were once closed.

GUNNAR GUSTAFSON

No biography provided.

GUY ROYSE

Guy works for Redis as a Developer Advocate. Combining his decades of experience in writing software with a passion for sharing what he has learned,

Guy goes out into developer communities and helps others build great software.

In his personal life, Guy is a hard-boiled geek interested in role-playing games, science fiction, and technology. He also has a slightly less geeky interest in history and linguistics. In his spare time, he volunteers for his local Cub Scout Pack, goes camping, and studies history and linguistics.

Guy lives in Ohio with his wife, his three teenage sons, and an entire wall of games.

J.D. HILLEN

Hailing from the heart of Kansas City's Silicon Prairie, J.D. Hillen is a Software Engineer II at GPS and wearables company, Garmin. Since the age of 15, he's been fascinated with the connection between creativity and code. His love for all things tech has allowed him to work for a wide variety of advertising agencies, marketing firms and even the craft beer industry. When he's not coding, you'll find him spending time with his wife and two boys or in the pit of a metal show.

JACOB CHARLES

My name is Jacob Charles. I've worked in the IT industry for over 8 years. I started as a software engineer and moved to a Cloud DevOps Manager for KBR Space and Mission Solutions. I've had the great opportunity to solve a variety of problems and grew a passion for security and infrastructure automation. Last year I turned my passion into a product that everyone can benefit from. I founded Bison Cloud Solutions in order to help others improve cloud security and infrastructure automation.

JAIME NISWONGER

Jaime Niswonger is a change agent for enterprise software with more than three decades of experience as an architect, technical lead, mentor, speaker, and project manager. Jaime is highly successful in guiding organizations to avoid the pitfalls of new technology adoption through strategic and tactical leadership, which he does daily for Keyhole Software clients. He is an avid learner and constantly seeks ways to improve his skill set and stay current with the fast-moving technology landscape.

JAKE PARTUSCH

Jake is a software architect, speaker, and engineer who loves all things JavaScript. He is constantly on the search for new skills and techniques to build highly-available, performant and user-friendly web platforms. Jake is a Senior Full Stack engineer at Vendia where he leads the delivery of Enterprise features across Vendia's platforms. When he's not writing code, Jake loves to read, golf, and spend time with his family.

JARED DIETZ

I'm an engineering team lead at First National Bank of Omaha. My main interests are full stack engineering and the developer experience. I love to build things and mentor other engineers.

SPEAKERS



JEREMY SUING

Jeremy Suing is a Manager, Business Systems for Mutual of Omaha in Workplace Solutions. Mr. Suing has been involved in management and development of enterprise software systems for more than 25 years, working in both large corporate and educational environments. Mr. Suing has received the Certified Scrum Master, Certified Product Owner, and Certified Scrum Developer designations from the ScrumAlliance. Prior to joining Mutual of Omaha in March 2023, he was a Software Engineering Manager with Spreetail for 10 months and had spent the previous 16 and a half years to that with the Jeffrey S. Raikes School and the School of Computing at the University of Nebraska-Lincoln (UNL) as the Senior Program Lead for Design Studio and a Lecturer, respectfully. Prior to joining UNL, Mr. Suing had 7 years of software engineering and project management experience working directly with ERP software solutions for Oracle USA, Inc. (formerly J.D. Edwards & Company and then PeopleSoft, Inc.). He has a Master of Science in Computer Science from the University of Colorado at Denver and received his Bachelor of Science in Computer Science and Mathematics from the University of Nebraska at Kearney.

JERRY KOSKE

Jerry has been in love with creating software since he was a kid in the 1980s writing game code from the back of computer magazines. In his over 30 year career Jerry has done almost everything to include running a large multiplayer entertainment BBS in the 90s, automating the data fulfillment center for a major telemarketing company, leading numerous development teams for many companies, consulting/teaching engineering practices to fortune 500 companies, leading R&D efforts, providing application & enterprise architecture, and is currently acting as the Chief Technology Officer for Aviture where he oversees numerous software development efforts across the US Government, Finance, Logistics, Healthcare, Retail and Hospitality industries.

Jerry currently spends most of his time thinking about how to create better environments for software engineers, focusing on creating cultures that empower amazing people to do amazing things and make a real difference in someone's world. Software engineering is fun and rewarding, and everyone should feel that way!

JIM KUDIRKA

Jim is the Founder and Chief Architect of Premier Software Systems, a company leading the change toward sustainable and repeatable best practices in software engineering. Through both practice and training, he has achieved mastery of the software development process and now dedicates his time to mentoring and coaching organizations. Jim has over 28 years of software engineering experience, with 20+ years leading development teams and projects. He is passionate about good software design techniques and applying sound engineering principles that result in reduced time to market, exceptional quality, and minimizing overall cost. Jim is a native Nebraskan, has a wife and two children, and received an Electrical Engineering degree from the University of Nebraska-Lincoln.

JOEL LORD

Joel Lord is passionate about web and technology in general. He likes to learn new things but most of all, he likes to share his discoveries. He does so by travelling at various conferences all across the globe. He graduated from college in computer programming in the last millennium. Apart for a little break to get his BSc in computational astrophysics, he was always in the industry. As a Developer Advocate at MongoDB, he meets with developers to help them make the web a better place. During his free time, he is usually found stargazing in a camping site somewhere.

JOEL TOSI

Just a dude trying to help out people and teams that are trying to learn and create interesting products. With experience in dev, architecture, management, and product - I try to help teams communicate more effectively and build their products in a maintainable way that allows room for product discovery.

JOHN WIRTZ

As Hudl's Chief Product Officer, John Wirtz leads Hudl's product management, design and hardware teams, and is responsible for Hudl's product strategy and vision. John holds a bachelor's in business and computer science and a master's in business administration from the Jeffrey S. Raikes School of Computer Science and Management at the University of Nebraska-Lincoln. In 2006, he teamed up with fellow Raikes School students David Graff and Brian Kaiser to co-found Hudl, with a goal to help sports teams find a better solution to sharing video.

Now Hudl serves more than 6M users and 200,000 teams worldwide, at every level of more than 40 sports. Based in Lincoln, Nebraska, and fueled by a global team of more than 4,000 professionals in 19 countries, Hudl continues to change the way sports are seen. John leads product strategy and design for Hudl's suite of video and data products, including tools for recruiting, opponent scouting, game planning, livestreaming and training. The latest product innovations include smart cameras that can automatically capture and livestream every moment on the court or field. John's long-term vision has helped the company stay at the forefront of the sports technology industry.

In his free time, John serves on multiple community boards and enjoys mentoring the next generation of entrepreneurs. John and his family reside in Lincoln, Nebraska.

KEVIN LOGAN

I'm a husband of 16 years and father of 4. I've lived in Sioux Falls, SD and have been working for Omnitech since 2007. I play guitar (mostly bass) at our church a few times a month, ride my bike to work when it's not icy and am always learning new things (I prefer reading books). I've also become more interested in Bitcoin and the economy in the last year. I had the privilege of speaking at NE Code in 2016 and 2018.

Find more about me at AlignedDev and (@alignedDev) / Twitter.

SPEAKERS



LUKE DEROWITSCH

I have had the privilege of wearing many hats in my life. From student loans, to dog supplies, to mortgage, to church work, to insurance. All of these industries/fields have played an enjoyable part of my life. However, one of the things that applies to all of these is servant leadership. That is my passion. Helping others achieve their goals in a fun, strategic way. Thus the career in agile.

MARK FULLER

Mark Fuller is an experienced software development executive with a passion for helping companies thrill their customers. His speciality is leading teams using agile/lean/devops development methodologies at large-scale enterprises, with a wealth of experience working with global clients and diverse teams. Mark is continually helping leaders and teams optimize their software development through innovation and continuous improvement.

Mark and his wife Anne have lived and worked in various countries, including Germany and Italy. Today, they reside in Omaha where they enjoy spending time together watching concerts, Broadway plays, and cheering on their four adult children.

MARY GRYGLESKI

Mary is a Java Champion and a passionate Streaming Developer Advocate at DataStax, a leading data management company that champions Open Source software and specializes in Big Data, DB-as-a-service, Streaming, and Cloud-Native systems. She spent 3.5 years previously as a very effective advocate at IBM, focusing on Java, Jakarta EE, OpenJ9, Open Source, Cloud, and Distributed Systems. She transitioned from Unix/C to Java around 2000 and has never looked back since then. She considers herself a polyglot and loves to continue learning new and better ways to solve real-life problems. She is an active tech community builder outside of her day job, and currently the President of the Chicago Java Users Group (CJUG), as well as a co-organizer for several IBM-sponsored meetup groups in the Greater Chicago area.

MATT PAYNE

Matt Payne stumbled upon computers the summer after seventh grade. He's spent time as a software engineer, manager, and instructor. He taught full-time at the University of Nebraska at Omaha's Math & Computer Science department during the early and mid-1990s. During that time, he learned how gratifying it is to help people discover the fun of computer programming and especially how fun it is to help someone get a job. These joys were one of the things that led to Matt being named AIM's Technology Guru of the year for 2001. Matt is active in the Omaha Technology community and blogs at MattPayne.org. Matt likes explaining (with examples and a graph) that one does not have to start young to have an incredible career in technology. Just remember Arthur Ashe's advice: "Start where you are. Use what you have. Do what you can."

MICHAEL FAIRCHILD

Michael Fairchild is an Accessibility Consultant and Coach at Deque Systems. He spends most of his time helping organizations make their digital content accessible to people with disabilities. He spent nearly a decade as a Web Applications Engineer at the University of Nebraska, where his passion for digital accessibility grew into a full time job. Michael is a Certified Professional in Web Accessibility, helps run the Nebraska Digital Accessibility meetup, and really enjoys a good doughy cookie.

MIKE BENKOVICH

A software architect, Azure expert, and former Microsoft evangelist, Mike Benkovich dedicates huge amounts of his time to helping his fellow developers and burgeoning programmers learn about new technologies and platforms. Mike's website www.benkotips.com equips developers with tips and resources to help them get to grips with technologies including cloud, data and devices, and he produces online courses covering areas like Azure development, data architecture strategies and serverless computing. Follow Mike on Twitter @BenkoTips

MIKE DRISCOLL

Mike Driscoll has been programming with the Python language for more than a decade. When Mike isn't programming for work, he writes about Python on his blog. Mike is also a contributor to Real Python. He has worked with Packt Publishing and No Starch Press as a technical reviewer for their books. Finally, Mike is the author of several books on the Python programming language.

MIKE RAVENELLE

Meet Mike Ravenelle, a computer science professional with a passion for technology and video games. Born and raised in Connecticut, Mike graduated high school from Norfolk, NE and then moved to Lincoln to study computer science at the University of Nebraska. He started his career 8 years ago at Bosch, where he works on creating and developing products for various communication product lines using technologies such as .NET, ASP.NET Core, Dev Ops, MFC, Python, CMAKE, Conan, Swift and QT. His current focus is on cross platform C++ support on macOS for desktop applications. In his free time, Mike is a self-proclaimed nerd who enjoys playing World of Warcraft and other video games. One of his biggest passions is video game emulation, and he has contributed to various emulation projects. He loves making things run on hardware they were never intended to run on. He is also a fully licensed skydiver who enjoys the art of testing gravity. When he's not working, playing games, or falling from the sky, Mike enjoys spending time with his lovely wife and son.

NATHAN RIVERA

No biography provided.

NICK HERSHBERGER

I'm a manager, agile coach, and team leader with a passion for building effective teams. For over 20 years, I've been helping software development teams deliver large-scale, world-class solutions to customers. Learning from experiences and communicating my skills to others energize me. Overall, my passion for application development is combined with a love for big-picture development and daily operational leadership.

SPEAKERS



NIKHIL BARTHWAL

Nikhil Barthwal is passionate about functional programming. He has several years of work experience in both big companies & smaller startups and also acts as a mentor to several startups. Outside of work, he speaks at international conferences on several topics related to Distributed systems & Programming Languages. You can know more about him via his homepage www.nikhilbarthwal.com.

RACHEL MICHAELA BRADLEY

Rachel is the Architecture and Engineering Lead of Design Studio at the Jeffrey S. Raikes School of Computer Science and Management, and a graduate computer scientist at the University of Nebraska-Lincoln's School of Computing. At the Raikes School, she has a wide range of responsibilities, from developing and maintaining systems to mentoring students on architectural and implementation issues, managing the department's research program, and assisting with the School's marketing material output. In pursuit of her MS and PhD, she is engaged in research in Computer Science Education. She is passionate about public service and non-profits, and channels her enthusiasm into internal advocacy for projects in this space, accompanied by advocacy for free software. She is a member of the Free Software Foundation. Prior to Nebraska, her day job as a senior technician and her night job as a freelance software engineer combined to produce over 10 years of industry experience developing software and enterprise hardware infrastructure.

RICH HAGARTY

Rich Hagarty is a software developer and Developer Advocate at IBM, currently focusing on Java and Open Source related technologies. Based in Austin, TX, Rich has been active in the developer advocacy community for the past 6 years, working on cloud computing and AI technologies.

He has created numerous learning paths, code patterns, articles, and videos - all to help developers understand and utilize IBM services, such as Watson Discovery and Assistant, IBM Cloud Pak for Data, as well as Red Hat OpenShift container security and deployment.

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ROB VERSAW

As the VP of Innovation at Envista, Rob Versaw leads the company's innovation efforts to develop new products, technologies, and solutions that drive growth and create value for customers. He works closely with the company's R&D teams to identify emerging trends and technologies and develop strategies to bring new products to market. His work has won many awards--including for the ground breaking AI enabled DTX software. Prior to his role at Envista, Rob held varying product and technology focused roles at Amazon, Fortive and Overstock.com.

ROBERT BOEDIGHEIMER

Robert Boedigheimer works for Schwan's Home Delivery providing business solutions with web technologies. He is a Microsoft MVP, a Progress Ninja (Fiddler), an ASPInsider, a Pluralsight author, and a 3rd degree black belt in Tae Kwon Do. Robert regularly speaks at national and international events.

RODRIGO RAMIREZ

I love technology and its possibilities, that's why I picked the computer science path and I've been working as a Software Engineer for 15 years in multiple companies and in 3 different countries. I believe sharing different ideas, solutions and cultures can achieve greater results. My family is my major treasure and I consider myself a music, movies and videogames lover.

ROSS COUDEYRAS

I have been in the technology field for 16 years with the last eight focused on security, compliance, and privacy. I work in SaaS B2B tech, and I also moonlight as an adjunct instructor of cybersecurity and privacy at Doane University. My hobbies include Dungeons and Dragons, video games, and the gym.

RYAN EBKE

Hi, I'm Ryan Ebke. I've been in software development for 14 years in a variety of roles in Software Development and Software product design/delivery. My main focuses are eCommerce, .NET and Node based development.

SCOTT CONNERLY

Scott builds dev teams. If he wasn't Head of Impact Engineering, he'd probably be in DevOps by now. If not in DevOps, he'd probably be a carpenter. When he's not accidentally implementing #NoEstimates in NCE, you can find him hiking in Colorado and 3d printing tchotchkes for his kids. FILLDI like Ze Frank.

SPEAKERS



SCOTT MCALLISTER

Scott McAllister is a Developer Advocate for ngrok. He has been building software in several industries for over a decade. Now he's helping others learn about a wide range of web technologies and incident management principles. When he's not coding, writing or speaking he enjoys long walks with his wife, skipping rocks with his kids, and is happy whenever Real Salt Lake, Seattle Sounders FC, Manchester City, St. Louis Cardinals, Seattle Mariners, Chicago Bulls, Seattle Storm, Seattle Seahawks, OL Reign FC, St. Louis Blues, Seattle Kraken, Barcelona, Fiorentina, Borussia Dortmund or Mainz 05 can manage a win.

SHELLY ANZALONE

Payments and technology - both are constantly changing and bring on new challenges. These changes coupled with leading teams through the solve and implementation is what keeps work interesting and exciting for me.

STEVEN CARLSON

Hello, I'm Steven. I'm a Cloud Security Architect at FNBO. Beyond my former XC Teams, running and education will always be my true passions. Over the last few years God has moved me from south central Nebraska to a little house in Lincoln, Ne. I love coffee and biking to different events in the city. I enjoy traveling, even if it means getting my hands dirty on my parent's farm.

TIM FRISCH

Tim is a UX/UI designer at Don't Panic Labs, bringing a thoughtful and conceptual approach to design. After receiving his BFA in painting from UNL, he worked for several years in print production, brand design, and environmental graphics, creating functional, beautiful design systems across a number of mediums. His aim in UX design, as in any design field, is to create better interactions between people and their environments.

TIMOTHY INGLEDUE

Timothy Ingledue is an accomplished software engineer with over two decades of experience in the field. Specializing in the Microsoft and AWS cloud technology stacks, Timothy has worked on a variety of projects across different industries, ranging from industrial to finance to e-commerce. Throughout his career, Timothy has demonstrated a deep understanding of software development principles, including software design, coding, testing, and deployment. He has a strong background in C#, .NET, Web Assembly, Blazor, Azure, DynamoDB, and SQL Server, among other technologies. He is also experienced in agile methodologies, DevOps practices, and cloud infrastructure.

In addition to his technical skills, Timothy is also an effective communicator and collaborator, able to work effectively with both technical and non-technical stakeholders. He is committed to staying up-to-date with the latest industry trends and technologies, and is passionate about sharing his knowledge and expertise with others through presentations and mentoring.

TYLER SANDERSON

Tyler Sanderson is a front-end developer and Senior Consultant at Improving, primarily working with clients on React based projects.

VAIBHAV GUJRAL

Vaibhav is a thought leader and a seasoned cloud professional currently working at Capgemini as a Director in Global Microsoft Cloud CoE, where he provides trusted technology advisory to the clients while demonstrating a deep understanding of cloud technologies.

He specializes in cloud strategy and governance with deep technical expertise in cloud security, cloud architecture, application architecture, micro-services architecture, and DevOps practices. He helps organizations adopt the cloud the right way by clearly understanding the business drivers and developing a cost-effective solution utilizing suitable architectural patterns and design principles. In addition, he has led several cloud transformation and cloud migration projects for clients located across geographies in the insurance, banking, real estate, and healthcare industries.

He has been awarded Microsoft Most Valuable Professional (MVP) award for the Microsoft Azure category since 2020, and he is a Microsoft Certified Trainer. He holds numerous cloud certifications, including Microsoft Certified Azure Solutions Architect Expert and AWS Certified Solutions Architect Associate. He has a Bachelor of Engineering degree with Information Technology as his specialization. He has been an active member of the global Azure community. Apart from being a regular speaker at several user groups, events, and conferences, he also runs the Omaha Azure user group (<https://omahaazure.org/>), a meetup community of more than 1000 members. He also moderates a Twitter community for Microsoft Azure with over 600 members.

He regularly blogs at <https://vaibhavgujral.com/> and runs his own YouTube channel - <https://bit.ly/3r4uAK9>.

WENDY URBANEK

I'm Wendy and I am an Agile Consultant at Pacific Life Insurance, but my career in IT started long ago. My focus areas are visualization and guiding teams into learning new ways of working by breaking down the barriers of siloed knowledge, challenging the status quo, and fostering transparency and psychological safety. As a coach, I love the art of facilitation and am a student of Liberating Structures. Whenever anyone asked "What do you really want to be when you grow up?", I'd always say that I wanted to be motivational speaker - but unfortunately, I couldn't settle on a topic that I was passionate about. Then came Agile and agility...the lean and people-centric natural of agility is what truly gravitated me towards new ways of working. It is my joy to share agility with others. As a coach, I am able to live my passions of mentoring and teaching by guiding and supporting others in their own agile journey.

ZACH PERKINS

I'm a seasoned tech professional with a breadth of experience in development processes and cloud infrastructure. I've had the opportunity to work with Azure, AWS and VMware automation tools to optimize delivery of cloud resources and applications. My professional focus is on building sustainable platforms for application systems using the cloud and Infrastructure-as-code.



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NOTES



NOTES



NOTES



The background is a solid red color with a fine, fibrous texture, similar to marbled paper or a rough-painted surface. It is covered in numerous thin, light-colored scratches and scuffs of varying lengths and directions. Two small, circular, slightly raised marks are visible: one on the left side and one on the right side, both appearing as small indentations or bubbles in the surface.

THE END.